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SUITE DREAMS

New hotels in Minneapolis and Duluth take landmark design and personalized service to new heights.

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COLLEGE OF CONNECTIONS

The U's interdisciplinary College of Design sparks a brushfire of new design ideas and relationships.

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DRAWING THEM IN

AIA Minnesota's Architecture in the Schools program transforms desks into drafting tables across the Twin Cities.

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Northern Hospitality

Checking in at the new Foshay

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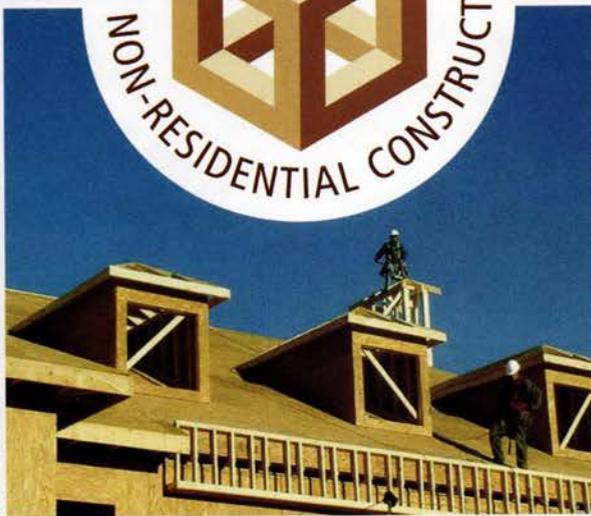
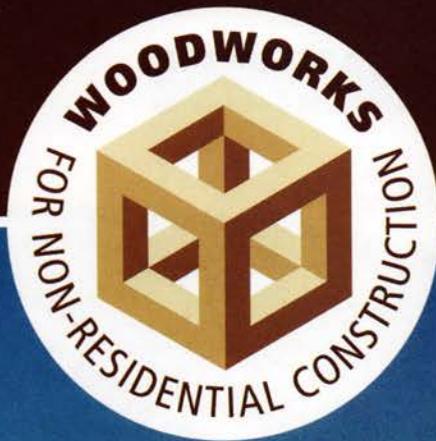


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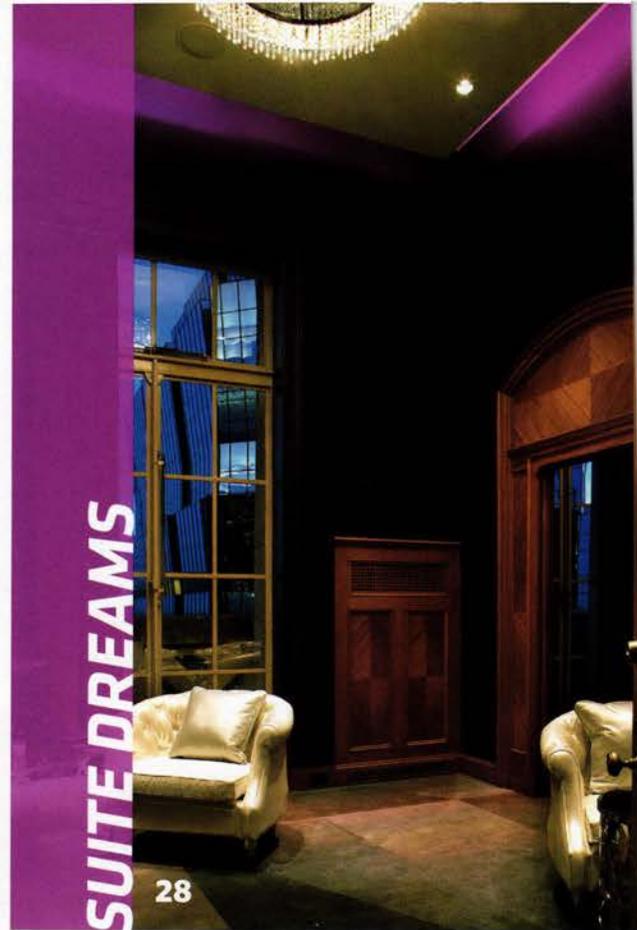
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Features



ON THE COVER

W Minneapolis, The Foshay

"I'm dating myself here, but I can remember standing on the Foshay observation deck and looking out across Minneapolis in the 1960s," says photographer **George Heinrich**. "It was a privilege to photograph ESG's stunning renovation of the city's first skyscraper."

27 *Suite Dreams*

Introduction by Tom Hoskens, AIA, and Christopher Hudson

In Minneapolis, two iconic but run-down 1920s-era towers are transformed into unforgettable boutique hotels, while a new hotel in Duluth take its cues from the historic former hotel next door. The new northern hospitality has a landmark flavor.

Roaring Back: W Minneapolis, The Foshay

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By Phillip Glenn Koski, AIA

Temple of Luxury: Hotel Ivy

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By Camille LeFevre

The Art of Fitting In: Sheraton Duluth

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By Frank Edgerton Martin

42 *College of Connections*

By Adam Regn Arvidson

It's been two and a half years since the University of Minnesota's College of Architecture and Landscape Architecture and the Department of Design, Housing, and Apparel merged to form the College of Design, so we thought it a good time to check in on the grand experiment. What we found were students and faculty eagerly embracing the many new opportunities for interdisciplinary study and collaboration.

50 *Drawing Them In*

By Camille LeFevre

AIA Minnesota's Architecture in the Schools program introduces young students to the profession by having them do something they already love to do: draw.



DRAWING THEM IN

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BY BRANDON STENGEL, ASSOC. AIA

If the artwork of David Paul Seymour, Assoc. AIA, is any indication, the suburbs are way cooler than even the hippest urban enclave.

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BY FRANK EDGERTON MARTIN

In Minnesota, our bridges span rivers, gullies, and time. An engrossing new book tells their stories.

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During and after the holidays, the one can't-miss spot in St. Paul is Rice Park, and the tree lights aren't the only reason why.

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BY MIKE REED

Scott Lloyd Anderson's representational paintings of the I-35W bridge construction invite a lingering eye.

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BY JOHN DWYER, AIA

In this new department, we travel around the 45th parallel in search of expectations-defying, comfort-zone-stretching design.

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On a winter drive through Iowa, Don F. Wong exits the freeway to photograph something beautiful: the future.

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FRONT MATTERS

We're debuting a new department in this issue—read on for a proper introduction—and this prompted us to take stock of all the front-of-magazine features we've introduced since the redesigned *Architecture Minnesota* hit newsstands in March 2006. Our longtime readers will recall that pre-2006 departments such as Practice and Technology targeted architect readers and were often long enough to jump to the back of the magazine. In contrast, the new departments all aim to engage a wider readership with snappier, less technical, more plentifully illustrated coverage of the architecture scene in Minnesota. Our department scribes are all encouraged to let their personality and sense of humor shine through.

Two contributors who need no prodding to be original are Phillip Glenn Koski, AIA, and Frank Edgerton Martin. Koski launched our Fiction department in early 2007 with a colorfully satirical tale of the looming demolition of the Jean Nouvel Guthrie in 2057, while Martin's musings on design and preservation dilemmas in Conundra blend principle and pragmatism in a unique way. Fun fact: Koski based the character of Dr. Francisco Martini in the second part of "First Avenue North" (January/February 2008) on Martin. I never grow tired of this spot-on characterization: "Eccentric and worldly...Francisco could always be found sipping Vietnamese coffee at a sidewalk table outside the...café, beneath a stunted little-leaf

linden. He could be found there on even the most blustery cold days—windblown, hatless, with a *New Yorker* magazine welded to his left hand and a 19th-century leather book bag placed across his loafered feet to keep them warm."

Other departments take up design-related events and publications, public art in architectural settings, and volunteerism in the architecture community. In her Material Matters column, Nancy A. Miller has highlighted everything from basic wood to light-transmitting concrete. Adam Regn Arvidson's Why It Works department and podcast breaks down the design ideas behind popular spaces such as the IDS Crystal Court in Minneapolis and Rice Park in St. Paul. Are you a photography enthusiast? Then be sure to check out *Wayfarer* and *Place*. The latter closes each issue with an interesting built-environment scene—an empty village hall in northwestern Minnesota, or towering wind turbines along an Iowa freeway in winter—captured by a Minnesota photographer. In a recent *Wayfarer*, architectural photographer George Heinrich returned from Cuba with a photo and a lasting impression of Havana's famed Malecón.

Our newest addition, 45 Degrees North (page 25), is a travel department of a different sort. Penned by John Dwyer, AIA, 45 Degrees circles the globe along the Twin Cities' latitudinal parallel in search of architecture that we don't often find here at home. We see the department as an opportunity to challenge design expectations in Minnesota, and its debut fits perfectly between our last issue, which profiled three extraordinary overseas projects by Minnesota architects, and a lengthy feature in our next issue on Toronto's plans to

In magazines, as in life,
good things come in small
(one-page) packages.

EDITOR'S NOTE

dramatically revitalize its waterfront with the help of an international roster of landscape architects, architects, and urban planners.

Is 45 Degrees North off to a good start? Which departments do you most look forward to reading? Which is your least favorite? And do you have ideas for how to improve it? If so, please visit *Threshold* (aia-mn.blogspot.com) and comment on my entry on the topic. We love getting constructive feedback from our readers. And who knows? You might just get what you ask for.

Christopher Hudson
hudson@aia-mn.org

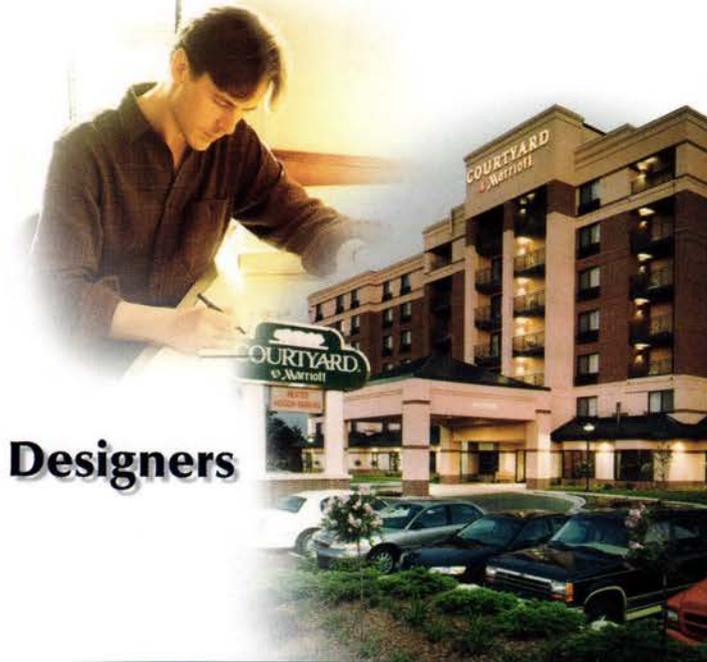
@ the threshold
A QUICK GUIDE TO ARCHITECTURE
MINNESOTA DISCUSSION ON THE
AIA MINNESOTA BLOG

Should new buildings in historic districts be designed to blend in, or is the bold contrast demonstrated by Hotel Seeko'o (page 25) in Bordeaux, France, a better way to energize an historic area? Share your thoughts on the merits and drawbacks of these two approaches at aia-mn.blogspot.com.

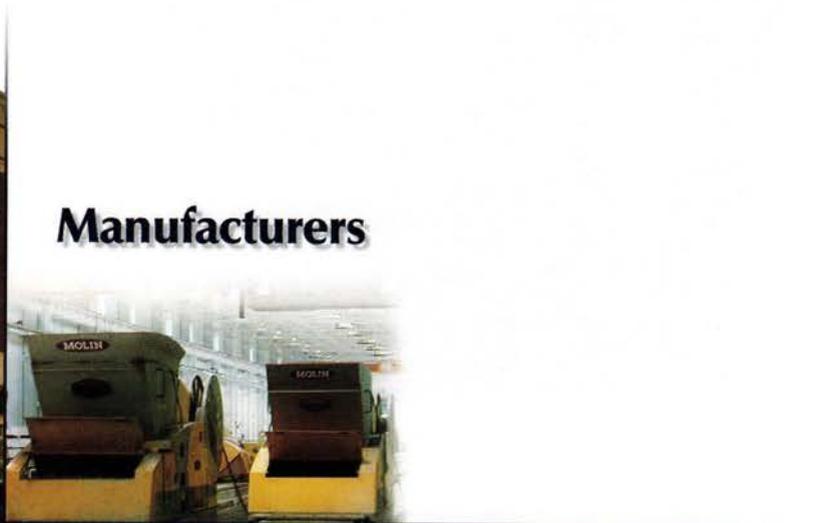
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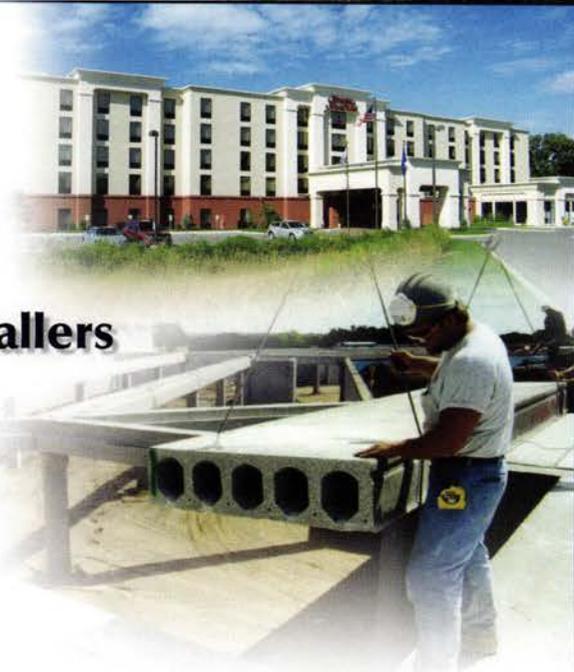
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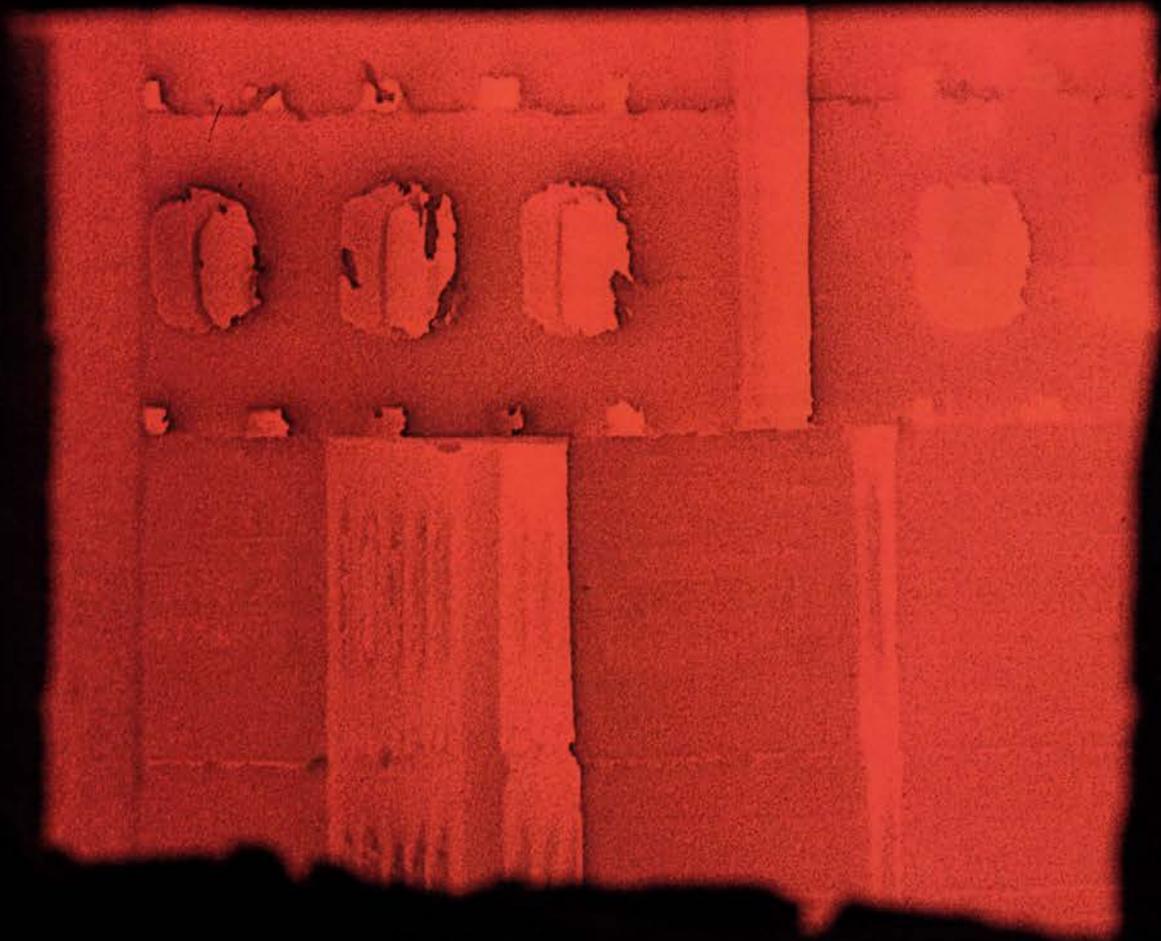


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Lutsen Lodge

Lutsen, Minnesota
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Downhill, cross-country, and telemark skiers find respite in front of the massive stone fireplaces of Edwin Lundie's Scandinavian-style Lutsen Lodge. The Lake Superior site where the lodge now stands was once the homestead of Swedish immigrant Charles Axel Nelson. In 1949, Lundie completed the pine-timber lodge, designed in homage to its Swedish ancestry. A dramatic gabled roof (miniaturized in a repeating set of rooftop dormers), mortise-and-tension joinery, clapboard and distinctive diagonal siding, ornamental Swedish detailing, and a covered bridge across an adjacent stream distinguish the exterior of Minnesota's oldest resort. Inside, the low-ceilinged, timber-beamed lobby and dining hall are finished in dark woods; a spindled stair leads to lodge rooms on upper floors.

Historic Hotels

This winter, trade cabin fever for a stay at a regional historic hotel

—Camille LeFevre



Hotel Donaldson

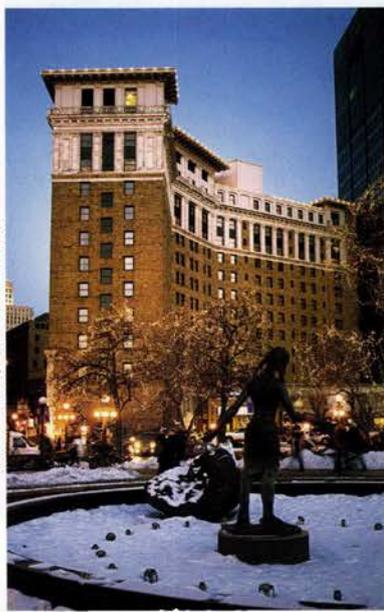
Fargo, North Dakota
www.hoteldonaldson.com

Built in 1893, the boutique establishment now known as Hotel Donaldson has served as a headquarters for the International Order of Odd Fellows, a "workingman's" hotel (i.e., flophouse) with a patchwork of street-level retail, and a home to various pigeons and vagrants. In 2000, local businesswoman Karen Burgum and Minneapolis' Barbour LaDouceur Design Group transformed the decrepit 28,000-square-foot brick-and-timber building into elegant sleeping rooms, conference and gathering spaces, and a bar and restaurant, all decorated with local art. Hardy guests can venture to the Plains Art Museum or the Hjemkomst Museum in Moorhead for further immersion in local arts and architecture.

St. Paul Hotel

St. Paul, Minnesota
www.saintpaulhotel.com

Host to presidents and royalty, the elegant St. Paul Hotel began humbly enough in 1871, when John Summers expanded his home into a hotel. After fire destroyed the hotel several years later, Summers erected a bigger, fancier establishment on the site, but it slipped into decrepitude as an arcade and theater after he retired. Lucius P. Ordway bought the property in 1908 with the intention of building a luxury hotel, and in 1910 the sumptuously appointed St. Paul Hotel, designed in the Italian Renaissance Revival style by New York architects Reed and Stem, opened to great fanfare. It was refurbished in 1982. Located in the urban core near the Mississippi River, the hotel overlooks Rice Park (see page 19) and the marquee of Ordway Center, which this winter presents performances by heralded soprano Deborah Voight, the London Sinfonietta, and a new version of *Faust* by the Minnesota Opera.



Got some free time and an interest in design? Culture Crawl rounds up the latest cultural offerings from around the region.

CULTURE
CRAWL



St. James Hotel

Red Wing, Minnesota
www.st-james-hotel.com

The four-story, Italianate St. James Hotel, designed by Minneapolis architect E.P. Bassford, opened on Thanksgiving Day 1875. The invitation-only tickets were \$5, and guests dined on a sumptuous array of exotic cuisine, gasped at the hotel's steam heat, and marveled at the bridal suite, baggage storage, and ballroom—where they danced until morning. Located next to the train depot in the heart of the business district, the hotel served the hustle and bustle created by the city's world-renowned wheat-trading commerce. In 1977, Red Wing Shoe Company purchased the hotel and spent two years renovating it while adding a new structure to house additional guestrooms (all decorated with period furnishings and custom quilts), office space, shopping, and restaurants. A former bank was converted into the Port Restaurant, which has been honored by *Wine Spectator* every year since 2001. In winter, the hotel offers ski and snowboarding packages at nearby Welch Village.



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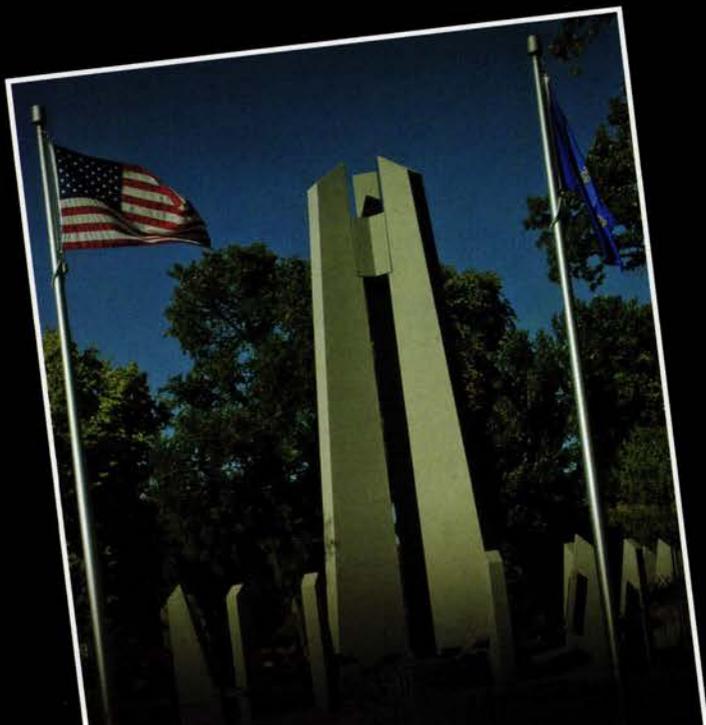
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PICTURE
PERFECT



Twin Cities designer and artist David Paul Seymour, Assoc. AIA, renders a vividly stylized vision of suburbia



BRANDON STENGEL, ASSOC. AIA



What's hip about Minnesota? The Replacements, the arts, and Eden Prairie, according to illustrator and designer David Paul Seymour, Assoc. AIA. You might say that Seymour views the world—including the oft-maligned suburbs, where he and his family live—through rose-colored glasses. The kind with cutting-edge modern frames.

Fittingly, Seymour developed his craft during a three-year stint in the office of Charles Stinson, AIA, an architect known for ultra-modern residential design. "I can either thank Charles or blame him for helping to kick-start my artistic career," he says. "Charles is a dreamer, and he really likes to empower the visions of other people, too." It was in 2005 that Seymour decided to turn the pen on his own life for the annual

family Christmas card. The edgy depiction of a punk-rock couple, their indie kids, and a utopian neighborhood spawned a series of art-house vignettes titled "The Suburbans." "I've always had a fanciful view of suburbia—the World's Fair City of Tomorrow, fondue party kind of suburbia," he says. "Not everyone sees it that way, but I do."

But while Seymour's take on the suburbs is always upbeat, his outlets for illustrating life in the outer ring continue to change. He's done limited-edition poster prints, illustrated barbecue cookbooks, and privately commissioned portraits, always looking for new ways to convey his perspective.

This winter, Seymour launched his most ambitious work yet: a line of greeting cards. Available online (www.davidpaulseymour.com), "Winter Wonderland"

is the first collection in an ongoing series of vividly illustrated, vaguely themed cards. "The occasions are intentionally ambiguous," Seymour explains. "It could be a Christmas card or just a note to say, 'Hey, you started a new chapter in your life. Good for you!' I don't want my art to be too specific. I want to keep moving forward and creating new things."

"I grew up in Mississippi, the home of the blues," Seymour continues, "and there was a saying I liked: 'The blues is a suitcase. When you find it along the side of the road, you can't leave it where you found it. You have to take it further down the road with you—further than where the last guy left it.'" It's an apt metaphor for Seymour's artistic aspirations. Of course, in Seymour's case, that suitcase is more likely to be left on a cul-de-sac.

—Brandon Stengel, Assoc. AIA

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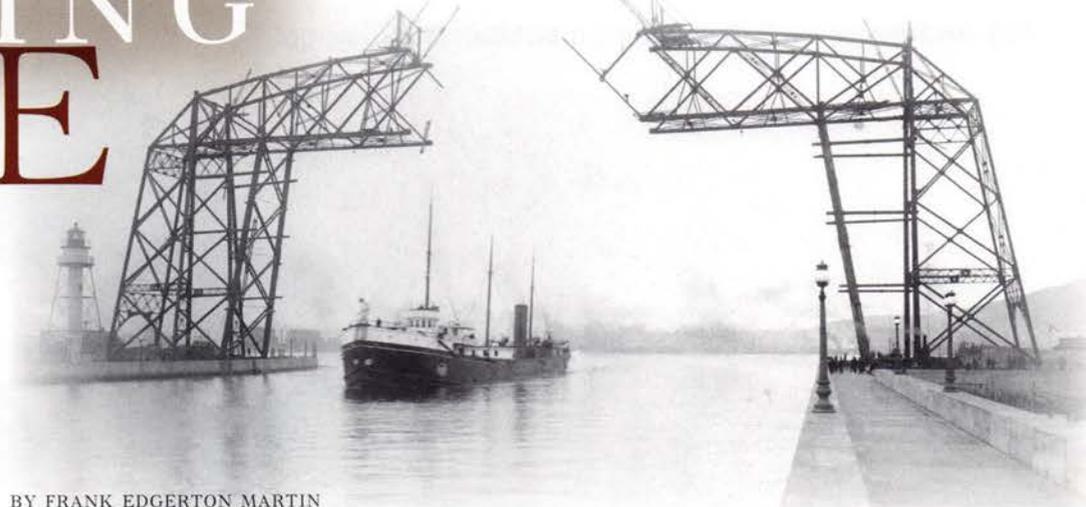


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SPEED READING

SPANNING TIME

A new book surveys the rich history of bridges in Minnesota



BY FRANK EDGERTON MARTIN

Since the mid-1980s, America has lost about half of its historic bridges. Yet few people have noticed. Minnesotans know too well how glaring the collapse of a major bridge can be; but it is easy to miss the quiet and continuing replacement of bridges in rural counties and in suburbs that were once rural. Denis P. Gardner's new book *Wood+Concrete+Stone+Steel* lives up to its title by exploring some 250 of the state's lost and extant bridges through the lens of each of these building materials.

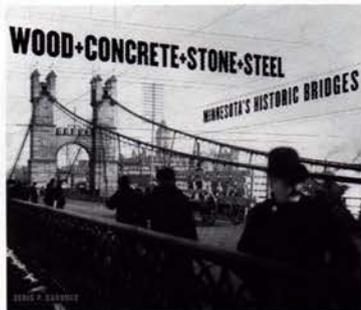
Considering that Minnesota's largest and oldest cities are located on major rivers or ports, a well-illustrated and referenced history is long overdue. How many of us have the childhood memory of driving into downtown Minneapolis over the reinforced-concrete-arch Third Avenue Bridge? Or rumbling over the grated deck of the former steel-arch Hennepin Avenue Bridge? Or approaching downtown St. Paul from the old or the new High Bridge?

Two of the book's best features are the illustrated "Guide to Bridge Trusses" and a county-by-county summary of the 14 bridges listed on the National Register of Historic Places and the more than 200 eligible for listing. Gardner, a bridge historian who

has documented sites for the National Register and the Historic American Engineering Survey, clearly spent a great deal of time searching through the files of many county highway departments (the agencies that often have control over historic bridges). In the closing and most personal chapter, "Bridge Preservation," the author recalls how distrustful many county staffers were when he posed questions that revealed his favorable view of preserving the old bridges in their area. They often quickly cited apocalyptic flaws such as rusting beams, crumbling stone, or deck-replacement needs. Gardner soon learned that asking about rehabilitating these elements generally gets you nowhere. "I am puzzled," Gardner concludes, "by our seeming propensity to allow bridges to become faulty to the point that replacement becomes the chief—and perhaps only—option. Instead of waiting for a bridge to become substandard to a degree that it must be replaced, why could we not continually maintain and occasionally rehabilitate the bridge?"

Landscapes and buildings become endangered when they fall out of style; bridges, on the other hand, are replaced because of concerns over safety, structural viability, and the cost of repair (versus building new). Fortunately, America's

>> continued on page 54



**WOOD+CONCRETE+STONE+STEEL:
MINNESOTA'S HISTORIC BRIDGES**

By Denis P. Gardner
University of Minnesota Press, 2008

Sustainable design is an environmentally responsible way to help lower the carbon footprint of homes in the environment and the community. With increasing concerns regarding climate change, energy usage, indoor air quality and emissions, engaging an AIA Architect is critical.

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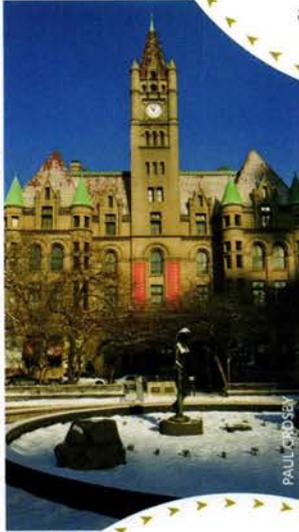
Join us and together we can walk towards a more sustainable future, visit

www.aia-mn.org

Location, Location, Location "I like that it's right in the middle," says grade-school teacher Susan Johnson, who has brought about 50 students downtown for the day. Surrounded by the Ordway Center, St. Paul's Central Library, the venerable St. Paul Hotel (see page 11), and the arts-focused Landmark Center, Rice Park is the heart of downtown, and that alone activates the space.

Ever wonder what makes a great space great? In *Why It Works*, we demystify the design ideas behind well-loved locations.

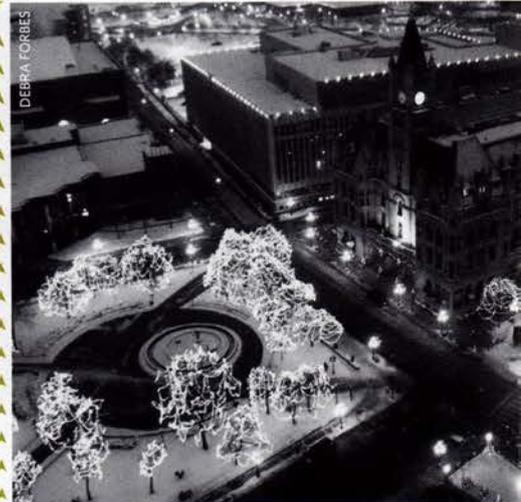
WHY IT WORKS



Flexibility "Rice Park is where the action is," says St. Paul Hotel valet Justin Tew. Last year an X Games promotion had BMXers launching themselves up over the lawn area. When the Republican National Convention was in town, MSNBC set up a stage in the middle of the concrete plaza. Rice is flexible because it's lopsided. Many classic town squares put a plaza right in the middle, but Rice Park's is pushed toward Landmark Center, which allows for a larger-than-usual lawn area.

Lots of Seating

Tom Wicklund comes down from his job on the State Capitol campus two or three times a week to sit and people-watch. On a recent crisp fall day, two different school groups were having lunch. Seating makes people feel welcome and encourages them to linger. Rice Park's inviting benches ring the fountain plaza and flank the walkways.



Rice Park, St. Paul

Rice Park has been around a long time—five years longer than New York's Central Park—and it has always occupied pride of place in Minnesota's capital city. It manages to exist simultaneously as a front yard, town square, picnic area, and thoroughfare. Runners come through on midday workouts, school groups stop for lunch, ice-skaters sip hot chocolate, and theatergoers linger into the night. Originally deeded to the city in 1849, Rice Park has been renovated several times, most recently in 2000.

Everyone knows about Rice Park. Everyone has a childhood memory, a daily routine, or an ideal Minnesota evening that involves Rice Park. So what makes this little square such a touchstone of the Minnesota experience? Why does everybody love it so much?

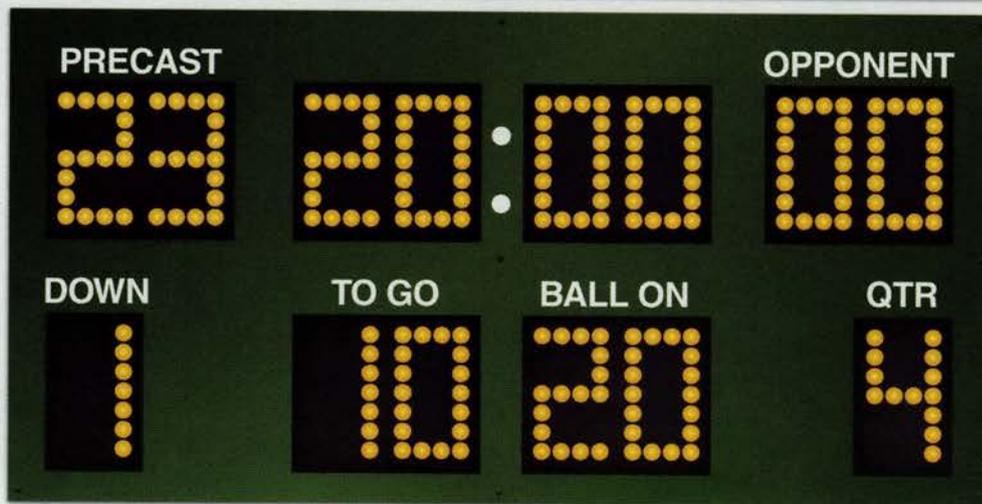
—Adam Regn Arvidson

A podcast of *Why It Works* is available on *Threshold*, the AIA Minnesota blog (aia-mn.blogspot.com).

Soft Light It's tough to make a great year-round space in Minnesota. That's partly because of the cold, but darkness is another factor. In the winter, when the sun goes down in late afternoon, dark public plazas can be pretty intimidating. Not Rice. The city festoons nearly every tree in the park with white lights, while the glow from the surrounding buildings and streets bathes the edges of the space.

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MINNESOTA CONCRETE MASONRY ASSOCIATION

Announcing the MCMA 2008 Excellence in Masonry Awards. Founded in 1953, the Minnesota Concrete Masonry Association is a trade association comprised of concrete masonry products producers and associated industry suppliers throughout Minnesota. The association works to promote awareness of the benefits of concrete masonry to builders, consumers and the design community.

2008 MCMA Excellence in Masonry Awards

COMMERCIAL

Project	Macalester College Athletics Recreation Center
Masonry Supplier	Anchor Block Compan
Owner	Macalester College
Architect/Designer	Hastings & Cheveta of St. Louis
General Contractor	McGough Construction
Masonry Contractor	McGough Construction

COMMERCIAL CONCRETE PAVERS

Project	Mound Transit Station
Masonry Supplier	Anchor Block Company
Owner	Southwest Transiit
Architect/Designer	Worthington Cobler Group - Mpls, FRF Consulting Firm
General Contractor	Graham Penn-Co Construction, Inc.

COMMERCIAL RETAINING WALL

Project	International Bazaar
Masonry Supplier	Anchor Block Company
Owner	MN State Fair
Architect/Designer	TKDA (contact Dean Johnson)
General Contractor	Maertens - Brenny Construction
Masonry Contractor	Justin Higgins & John Hoffman

MUNICIPAL

Project	Hastings Public Works
Masonry Supplier	County Materials Corporation
Owner	City of Hastings
Architect/Designer	TKDA
General Contractor	Construction Results
Masonry Contractor	CMC Construction

RESIDENTIAL ABOVE GRADE

Project	Phalen Senior Housing
Masonry Supplier	County Materials Corporation
Owner	Phalen Parkway Lofts, LP
Architect/Designer	DJR Architecture
General Contractor	Shaw Lundquist & Associates
Masonry Contractor	Gen-Con Construction

RESIDENTIAL BELOW GRADE

Project	The Lakes Garden Homes
Masonry Supplier	Anchor Block Company
Owner	Rottlund Homes
Architect/Designer	Rottlund Homes
General Contractor	Rottlund Homes
Masonry Contractor	Manor Concrete Construction, Inc.

RESIDENTIAL CONCRETE PAVERS

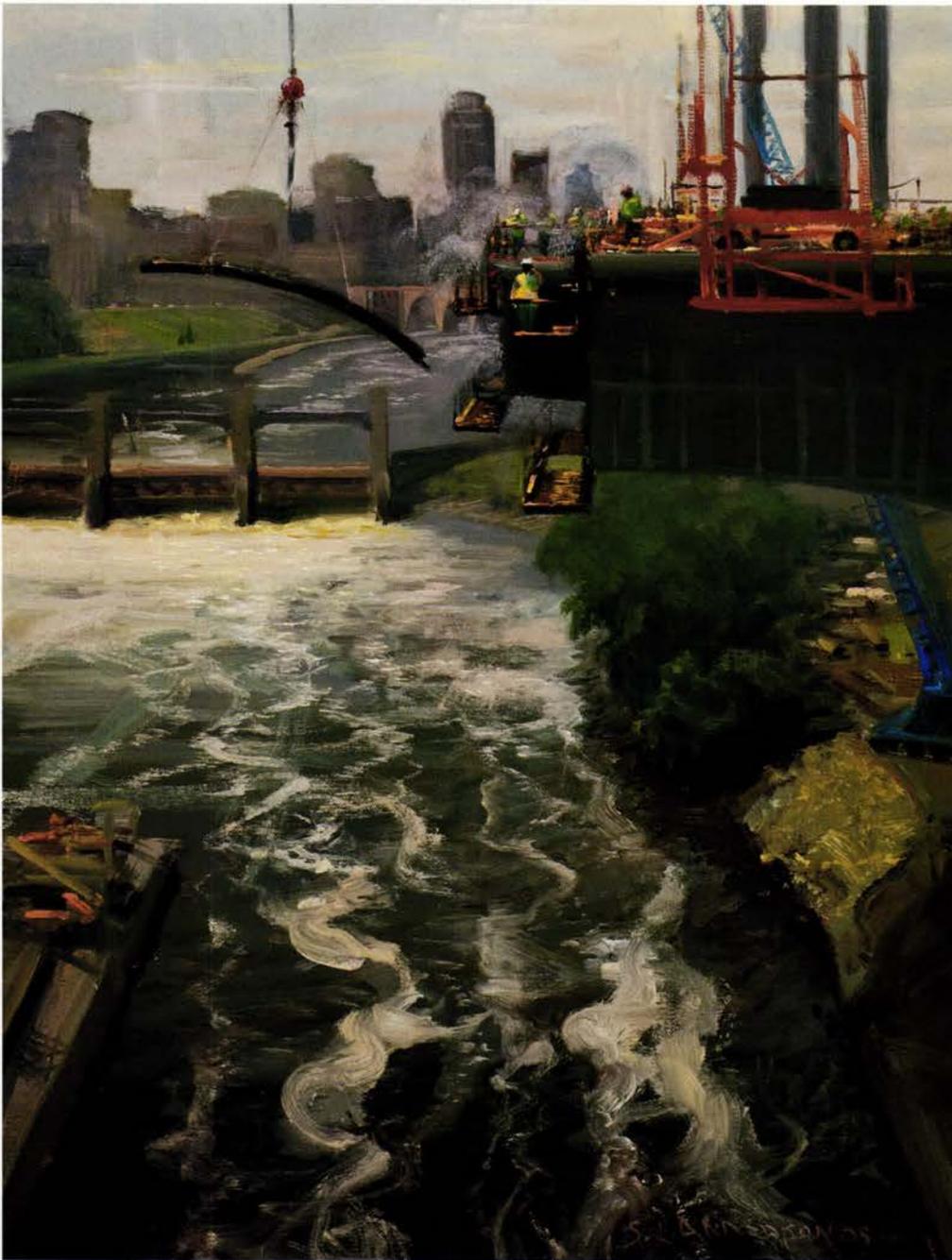
Project	Mies Residence
Masonry Supplier	Amcon Block
Owner	Jeff & Sue Mies
Architect/Designer	Todd Hodnefield
General Contractor	Heartland Landscape

RESIDENTIAL RETAINING WALL

Project	Qualey/Kasma Residence
Masonry Supplier	Anchor Block Company
Owner	Terry Qualey/Sandy Kasma
Architect/Designer	Abrahamson
General Contractor	GreenKey Landscaping

SPECIAL CONCRETE MASONRY PROJECT

Project	Evergreen Homeowners Association
Masonry Supplier	Amcon Block
Owner	Evergreen Homeowners Association
Architect/Designer	Chad Julius
General Contractor	Sierra Exteriors



In Platform, we highlight thought-provoking art in architectural environments or on architectural subject matter.

PLATFORM

REAL to REAL

Scott Lloyd Anderson's representational paintings of the I-35W bridge construction embrace craft over statement making

BY MIKE REED

Some years ago I taught a summer drawing course for incoming freshmen at the Rhode Island School of Design. One of the students was a taciturn kid named Matt who remained aloof from class discussions, showed little interest in the other students, and was unresponsive to instruction. On the last day of class, parents were invited to visit the classroom to see what their cherubs had wrought. Matt perked up noticeably when his parents walked in, and instead of his usual nondescript clothing he was wearing a T-shirt emblazoned with a profane two-word sentiment. Matt was making some sort of statement, and, although I doubt he could have articulated what it was, the T-shirt probably came close enough.

This may seem an odd way to introduce Scott Lloyd Anderson, an artist I admire, but in a culture where brashness is the leitmotif of so much contemporary art, Anderson's landscape paintings provide a welcome respite from irony and other forms of deliberate obscurity. What's even more refreshing is that Anderson's work doesn't pretend to be a statement of defiance against the modernist aesthetic catechism. Instead, his beautifully crafted paintings reflect a good eye, a practiced hand, and the obvious pleasure taken in the works' creation.

>> *continued on page 56*

Anderson's paintings fall short of the representational accuracy of photography, but they engage the viewer in a way that photographs cannot.



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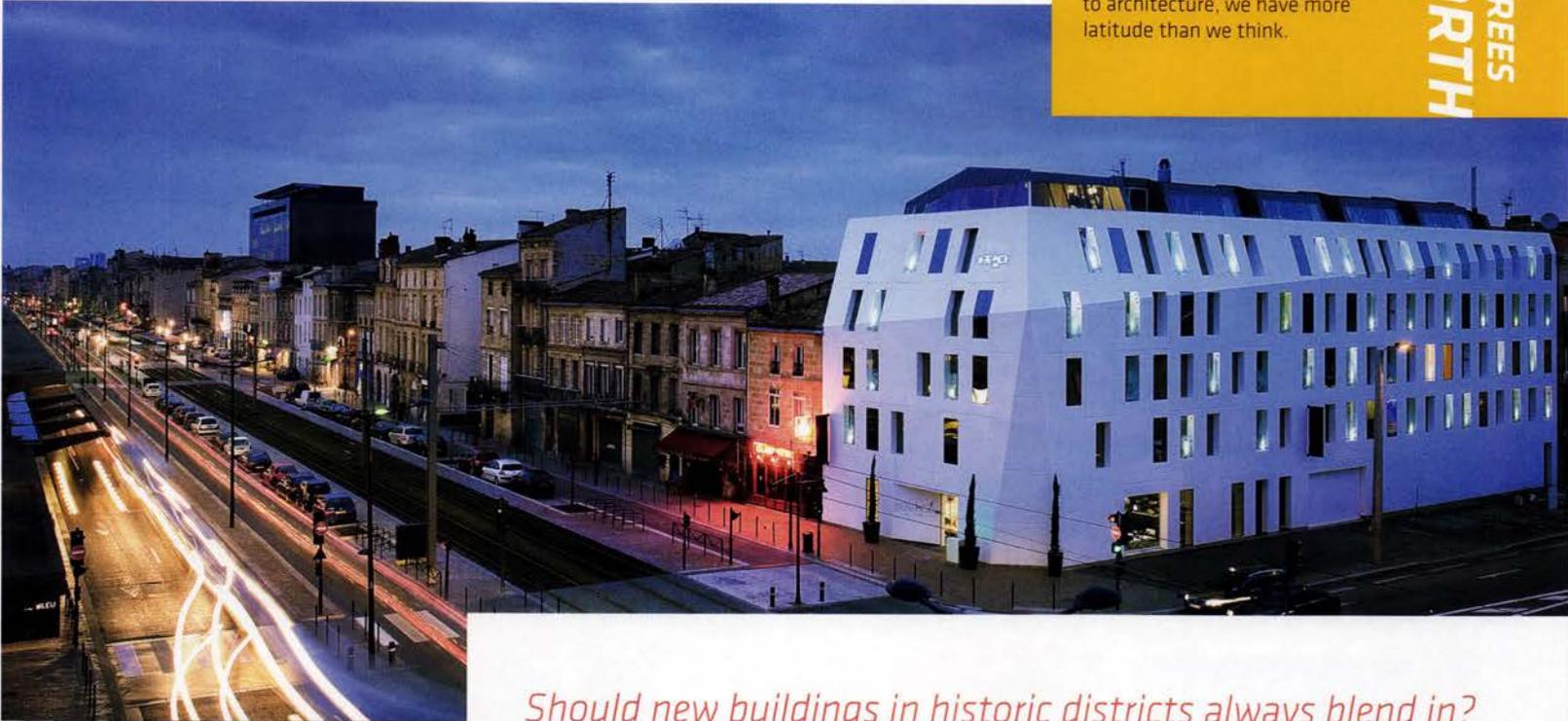
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What's your take on this discussion?
Let us know at aia-mn.blogspot.com.

A FINE BORDEAUX

In 45 Degrees North, we go looking for design inspiration in cities around the world that lie, like the Twin Cities, on the 45th parallel north. Our discovery? When it comes to architecture, we have more latitude than we think.

45 DEGREES
NORTH



Should new buildings in historic districts always blend in? The beautifully faceted Hotel Seeko'o in Bordeaux, France, angles for a different approach

Imagine yourself arriving in the little town of Bordeaux after several days of meandering through the French countryside. As you make your way through the winding streets, admiring the many stone chateaus with their fine patina, you come across a building on the industrial left bank of the Garonne River that shakes you out of your reverie. Seemingly carved from a giant block of white ice, the structure stands in bold relief against its mottled-gray 18th- and 19th-century neighbors. On closer inspection, you discover that it's a hotel, and that *seeko'o*, Inuit for *iceberg*, is etched into its monolithic Corian skin.

"Luxurious rooms featuring suites with open baths, round tufted beds, and mirrored ceilings," reads a sign out front. You ask yourself, "Does this place charge by the hour?" But as you step inside, you realize you have stumbled upon one of the most memorable hotels in the world. The first floor of the five-story, 2,300-square-meter building houses a reception hall, bar, dining room, hammam (Turkish bath), spa, and conference rooms. On the next four levels are 45 ultra-modern suites, with five "attic-level" bedrooms above fifth-floor suites that boast panoramic views of the riverfront.

We're painting this mental picture because we think the example of Hotel Seeko'o is an important one for Minnesota. Consider that Bordeaux, like many cities and towns in Minnesota, has made a practice of upholding its rich architectural heritage by ensuring that new buildings in historic areas are highly contextual. In simpler terms, the idea is to match the fabric. But a sassy hotelier and an architecture firm named King Kong (www.kingkong.fr) made the opposite argument: that bold yet respectful contrast would not only enhance the qualities of the surrounding architecture but also jumpstart the redevelopment of a flagging former industrial district.

The debate out of which this hotel came to be calls to mind a new business principle by Seth Godin: the purple cow. "The key to success," writes Godin, "is to find a way to stand out—to be the purple cow in a field of monochrome Holsteins." Can we in Minnesota break out of our beige-brick comfort zone and rejuvenate our cities in more adventurous ways? Hotel Seeko'o is proof that there is a world of intriguing design possibilities between matching new buildings to old ones and being different simply for the sake of being different. Indeed, Hotel Seeko'o is just the tip of the iceberg.

—John Dwyer, AIA



Guests at the ultra-chic Hotel Seeko'o aren't likely to forget their room numbers—even if they've had a few drinks at the hotel bar.

PHOTOS COURTESY OF HOTEL SEEKO'O

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within budget

Beautifully

STAINABLE
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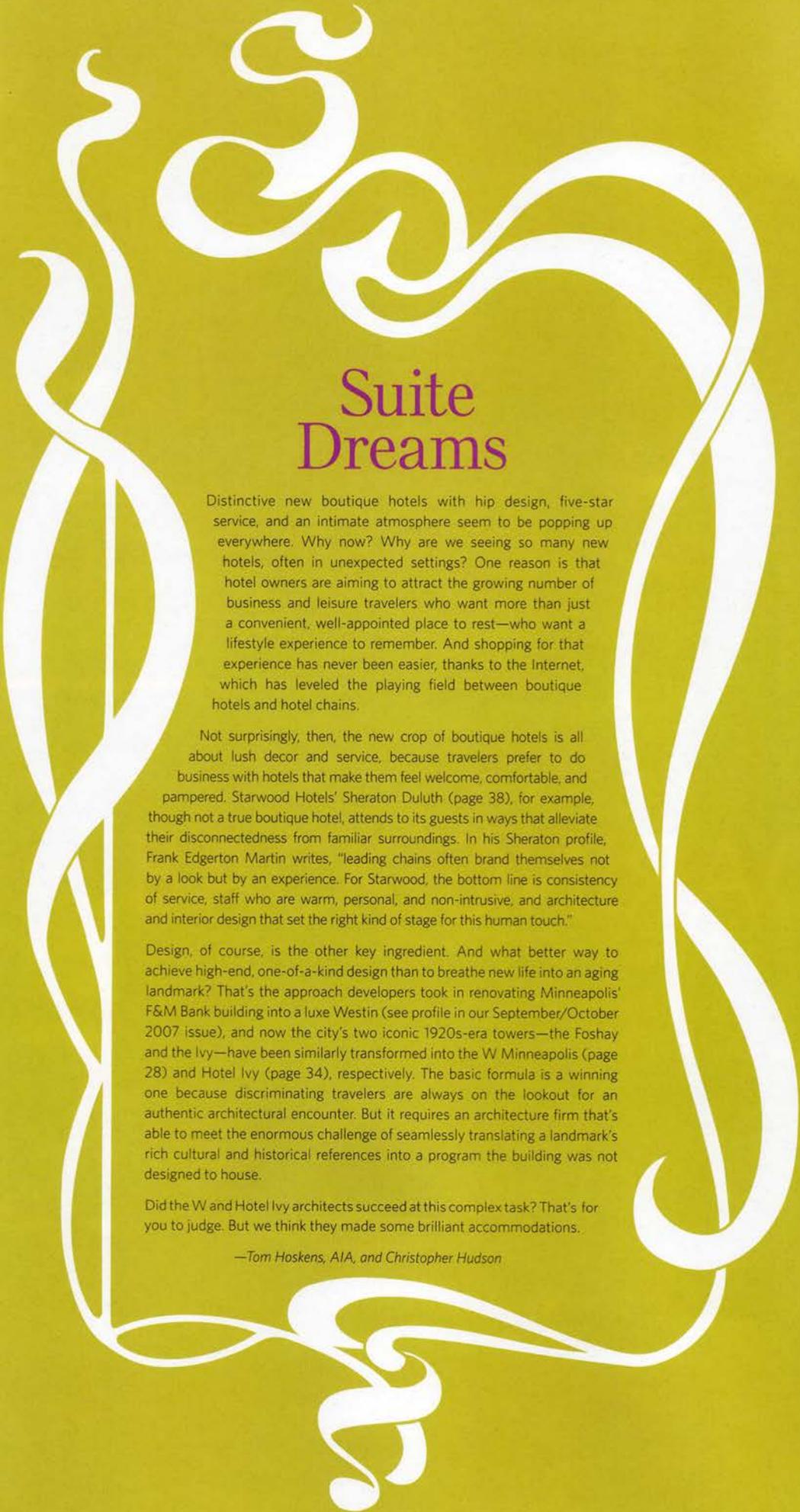


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Suite Dreams

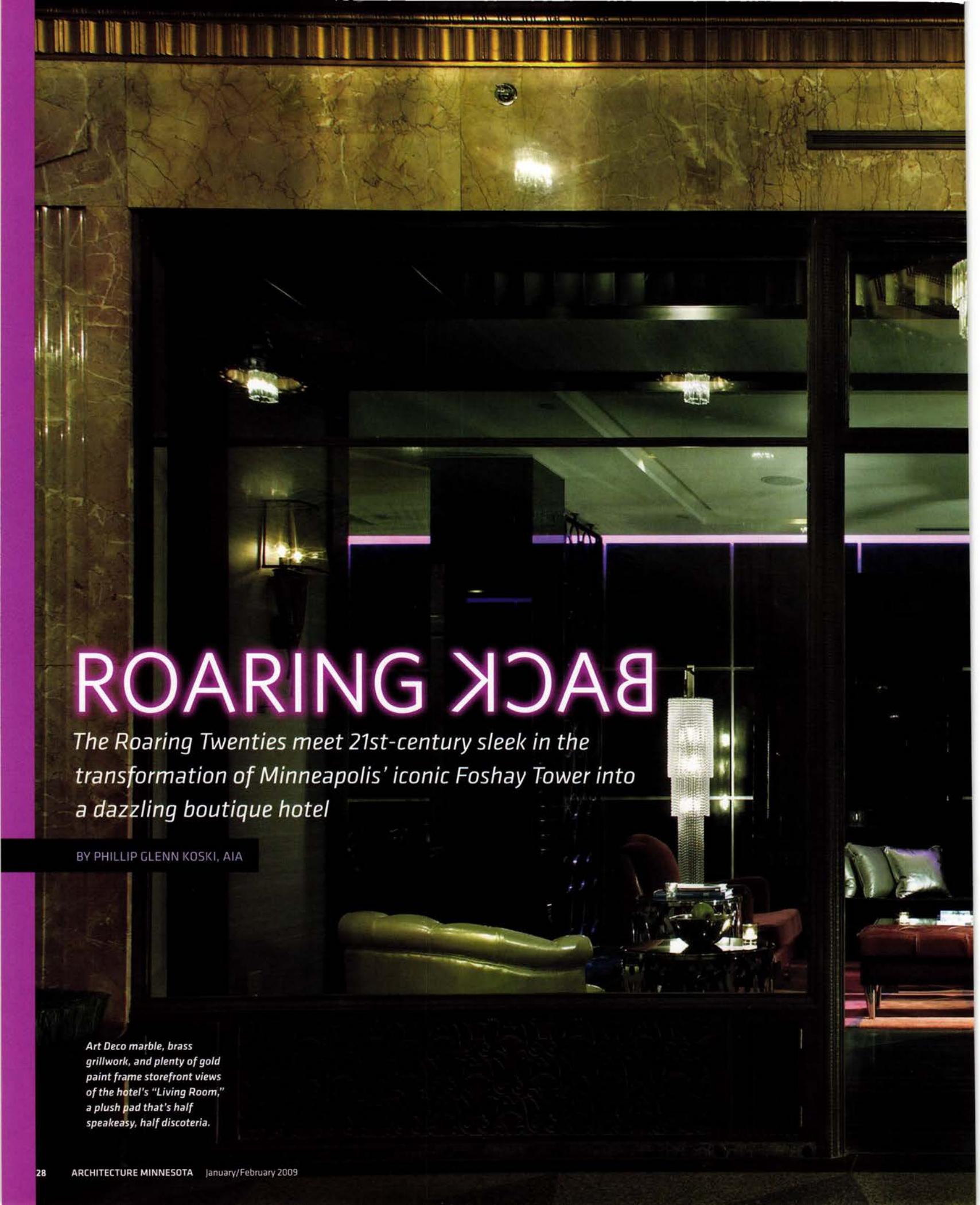
Distinctive new boutique hotels with hip design, five-star service, and an intimate atmosphere seem to be popping up everywhere. Why now? Why are we seeing so many new hotels, often in unexpected settings? One reason is that hotel owners are aiming to attract the growing number of business and leisure travelers who want more than just a convenient, well-appointed place to rest—who want a lifestyle experience to remember. And shopping for that experience has never been easier, thanks to the Internet, which has leveled the playing field between boutique hotels and hotel chains.

Not surprisingly, then, the new crop of boutique hotels is all about lush decor and service, because travelers prefer to do business with hotels that make them feel welcome, comfortable, and pampered. Starwood Hotels' Sheraton Duluth (page 38), for example, though not a true boutique hotel, attends to its guests in ways that alleviate their disconnectedness from familiar surroundings. In his Sheraton profile, Frank Edgerton Martin writes, "leading chains often brand themselves not by a look but by an experience. For Starwood, the bottom line is consistency of service, staff who are warm, personal, and non-intrusive, and architecture and interior design that set the right kind of stage for this human touch."

Design, of course, is the other key ingredient. And what better way to achieve high-end, one-of-a-kind design than to breathe new life into an aging landmark? That's the approach developers took in renovating Minneapolis' F&M Bank building into a luxe Westin (see profile in our September/October 2007 issue), and now the city's two iconic 1920s-era towers—the Foshay and the Ivy—have been similarly transformed into the W Minneapolis (page 28) and Hotel Ivy (page 34), respectively. The basic formula is a winning one because discriminating travelers are always on the lookout for an authentic architectural encounter. But it requires an architecture firm that's able to meet the enormous challenge of seamlessly translating a landmark's rich cultural and historical references into a program the building was not designed to house.

Did the W and Hotel Ivy architects succeed at this complex task? That's for you to judge. But we think they made some brilliant accommodations.

—Tom Hoskens, AIA, and Christopher Hudson



ROARING BACK

The Roaring Twenties meet 21st-century sleek in the transformation of Minneapolis' iconic Foshay Tower into a dazzling boutique hotel

BY PHILLIP GLENN KOSKI, AIA

Art Deco marble, brass grillwork, and plenty of gold paint frame storefront views of the hotel's "Living Room," a plush pad that's half speakeasy, half discoteca.



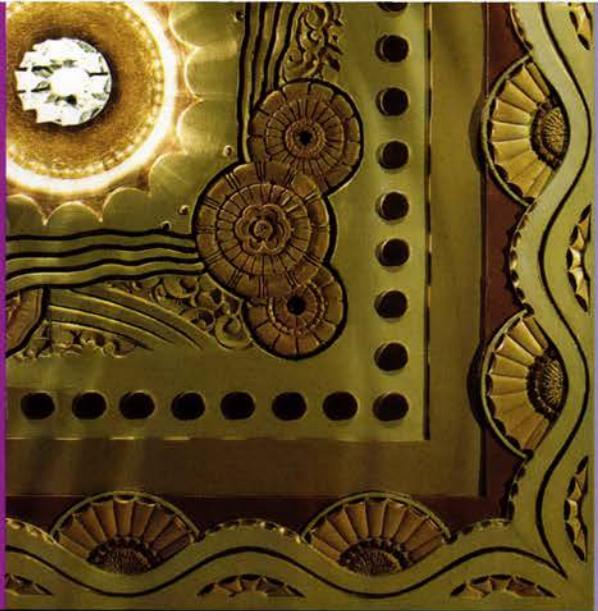
For almost 80 years, the tapered silhouette of the chiseled-limestone Foshay Tower has punctuated the Minneapolis skyline with a totemic power rarely seen outside of Marvel comic books. As fantastic as any edifice in a Gotham-themed sci-fi action film, it is also, unmistakably Minnesota's own.

Architecturally, its overt imitation of the Washington Monument blends with heavy-handed Masonic fanfare and streamlined Art Deco detailing to create a lavish curiosity. Culturally, it stands as a steadfast, fondly regarded, and necessary landmark.

Necessary? Sure. What sentient being would entertain thoughts of downtown Minneapolis without the Foshay Tower? That would be like London without Big Ben, New York without the Guggenheim, or St. Louis without its arch. Heresy!

Yet since its completion in 1929 the Foshay has never been a great real-estate success. The 32-story tower, while an appealing skyline fixture, features smallish, irregular floor plates, restrictive ceiling heights, and slow elevators, all of which have deterred large office tenants.

Indeed, from the beginning, its namesake and sponsor, Wilbur Foshay, had loftier ambitions for the building's exterior appearance than for its internal functions. But then such was the mood and ethic of the Roaring Twenties, the period of American history when young women first bared their knees in public, even criminals wore fancy suits to work, and a utility baron like Foshay felt no immodesty in writing his name in 10-foot-high letters across the top of his building in hundreds of electric light bulbs.



"It was a bit of a publicity stunt to create a highly inefficient office building in the shape of the Washington Monument, but that is its charm," observes Mark Swenson, FAIA, of Elness Swenson Graham (ESG) Architects. Swenson knows the building well: He became intimately aware of its considerable limitations—and huge marketing potential—during ESG's recent rehabilitation of the landmark into the first W Hotel in Minneapolis.

But a glamorous boutique hotel was not Ralph Burnet's first idea for the building when he purchased it, somewhat impulsively, in 2004. In fact, the real estate developer and art collector, swayed by childhood memories of tromping around downtown with his buddies in the 1950s and paying a quarter to ride the elevator to the Foshay observation deck, bought the tower with no plan for what to do with it. But as he pondered possible reuses, maintaining public access to the stepped-pyramid top was always in the back of his mind.

Burnet recruited ESG early on to perform a due-diligence study on the structure and provide advice on its future renovation. Because most commercial tenants need tens of thousands of square feet of uninterrupted floor space, the building's continued function as an office tower didn't stack up. And although the condo boom was still raging in 2004, the Foshay's historically designated exterior all but precluded the addition of balconies, a market standard. Converting the tower to a hotel, Burnet reasoned, would require much less alteration and would allow for the retention of the public observation deck.



Opposite: Plaster and decorative-paint artisans were called in to reconstruct the ceiling of the ground-floor concourse based on a few remaining fragments. Prohibition, the top-floor bar, sports abundant horizontal surfaces and killer views of the city.

This page: Dramatic up-lighting, replacement windows, and W's polished chrome signage are the only visible changes to the building's iconic exterior.

The Foshay's overt imitation of the Washington Monument blends with heavy-handed Masonic fanfare and streamlined Art Deco detailing to create a lavish curiosity.

FOSHAY FUN FACTS

- The Foshay was designed by Léon Eugène Arnal, chief designer for the architecture firm Magney & Tusler, to echo the Washington Monument.
- The tower was completed, at a cost of \$3.75 million, just months before the stock market crashed in October 1929. It was built to serve as the headquarters of Wilbur Foshay's public-utilities empire, which went into receivership soon after the grandiose dedication ceremonies.
- John Philip Sousa conducted "Foshay Tower-Washington Memorial March" at one of the opening ceremonies, which he had composed for the occasion. But he prohibited any further playing of the march after Wilbur Foshay's \$20,000 check bounced. Fortunately, all was put right in 1999 when a group of Minnesota investors paid Foshay's debt to Sousa's estate, and now the march can be played again.
- The Foshay was the first skyscraper in the U.S. to have its design patented, in 1930.
- The tower eclipsed the height of the 1906 Minneapolis City Hall and remained the tallest building in Minneapolis until the 1973 IDS Center surpassed it during construction in 1972.
- The Foshay was added to the National Register of Historic Places in 1978.
- A giant yellow ribbon encircled the building during the last days of the Iranian hostage crisis in early 1981.
- Radio station KFAI has been broadcasting from the Foshay since 1984. It moved its transmission tower to the IDS in 2007.
- In September 2006, developers Ralph W. Burnet and Minneapolis-based Ryan Companies announced their plans to convert the 32-story office tower into a 230-room W Hotel.



Saturated accent lighting in reds, magentas, violets, and blues dominates the W's public spaces. Clockwise from this page: Elevator lobby with beveled-glass welcome pods; main-floor bar; the W's signature oval screen, which wraps a circular banquette of luscious red Naugahyde.



Having already masterminded the chic, art-laden Chambers Hotel on nearby Hennepin Avenue, Burnet approached the trendsetting hospitality group Starwood Hotels and Resorts. "I was interested in their W hotel," explains Burnet, "because it's the hottest and sexiest brand in their portfolio." But he soon realized some persuasion was required to initiate, let alone make, a deal, because Minneapolis was not a location they were targeting. Only after Burnet arranged for Starwood to tour the Foshay did they see the potential in the tower's unique, iconic qualities. "Minneapolis went to the top of their list," he says.

A deal fell into place, and ESG, working with the Toronto-based hospitality design firm Munge Leung, set about transforming the weathered landmark into a sleek, seductive W Hotel. The design team's approach was to discard the minimalist-modern scheme of most W Hotels in favor of the decadence of the Roaring Twenties, which spawned the Foshay. "We used words like *prohibition*, *speakeasy*, *guns*, and *gangsters* as inspiration for the interior architectural design," says Mark Swenson.

The dramatic results are not fully evident on the exterior, where a new glass canopy, a couple of shiny chrome W signs, and high-performance windows designed to match the originals are the only major changes. But the Marquette Avenue entry is a portal to an alluring new world inside. The long, wide concourse and elevator lobby feature faithfully restored decorative ceiling

>> continued on page 57

W MINNEAPOLIS, THE FOSHAY

Location:
Minneapolis, Minnesota

Clients:
Ralph Burnet (RWB Holdings)
and Ryan Companies

Architect:
Elness Swenson Graham
Architects, Inc.
www.esgarch.com

Principal-in-charge:
Mark Swenson, FAIA

Project manager:
Aaron Roseth, Assoc. AIA

Project lead designer:
Alessandro Munge, Munge
Leung Design Associates
www.mungeleung.com

Historical consultant:
Hess Roise
www.hessroise.com

Energy modeling:
The Weidt Group
twgi.com

Design-builder:
Ryan Companies

Size:
255,578 square feet

Cost:
\$90 million

Completion date:
August 2008

Photographer:
George Heinrich





TEMPLE
OF
LUXURY

By Camille LeFevre



MINNEAPOLIS' IVY TOWER GOES FROM SHAMBLES TO CHIC HOTEL WITH A FIVE-STAR RENOVATION

Between the exuberance of the Roaring Twenties and the reckoning of the Great Depression, the Second Church of Christ Scientist commissioned Omaha architect Thomas Kimball to master-plan a new religious complex in downtown Minneapolis: four dramatic towers around a domed auditorium. In 1930, the first tower was completed. Designed in the stepped or pyramidal Ziggurat style—a temple tower configured by the Sumerians, Babylonians, and Assyrians of ancient Mesopotamia as a religious monument—the building featured a tastefully appointed interior and an exterior of exposed, pebbled concrete. Innovative at the time, that aggregate surface would later prove an aesthetic liability.



Last year, the Ivy reopened as the centerpiece of Minneapolis' first five-star hotel and condominium complex. The first and second floors are now Porter & Frye restaurant.

IVY HOTEL + RESIDENCE

Location:
Minneapolis, Minnesota

Client:
Ivy Tower
Development, LLC

Architect:
Walsh Bishop Associates, Inc.
www.walshbishop.com

Principal-in-charge:
Dean Olsen, AIA

Project lead designers:
Stephen Knowles, AIA;
Brian Lubben, AIA

Project manager:
Troy Goetz

Interior design:
Nelson Design Group

Construction manager:
Bor-Son Construction

Size:
400,000 square feet

Cost:
\$67 million
(construction cost)

Completion date:
February 2008

Photographer:
Farshid Assassi,
Assassi Productions

As the stock market crashed, so too did the church's plans for additional buildings. When the tower was sold in 1965, it was renamed Ivy Tower, and its reading areas and classrooms were converted to office rental space. In 1986, the Minneapolis Heritage Preservation Commission awarded it historic designation. But it was boarded up in 1994 and for a period faced the wrecking ball: The building's shape and pedigree were unique, but its exterior déclassé.

Meanwhile, a local designer, Bob Brantingham, had been keeping an eye on the lonely, often vandalized building from his office nearby. In 2000, he convinced two developers, Gary Benson and Jeffrey Laux, to purchase the building, by then a bare concrete shell inside. Benson and Laux turned to local architects Walsh Bishop Associates to implement the concepts the developers sold to the Luxury Collection of Starwood Hotels: a new 25-floor condominium tower and 18-story hotel tower attached via a vertical glass "zipper" and wrapping two sides of the historic Ivy—the latter transformed into a restaurant, a spa, and hotel suites.

"It was extremely time-consuming to rehab and incorporate an historic building into a project of this size," says Laux. "Walsh Bishop's Stephen Knowles generated the early design inspiration, while Troy Goetz, who has the patience of a saint, guided us as we tackled, retackled, and tackled again the complex issues with this project." The immense effort proved worthwhile. Last year, the Ivy reopened as the centerpiece of Minneapolis' first five-star hotel and condominium complex—with its pebbled exterior prominently featured as signature interior walls where the old building meets the new.

The development, tightly sited on its 20,000-square-foot location, has been criticized by some for overwhelming the diminutive Ivy, despite the tiny pocket park that separates the old and new buildings. But according to project manager Troy Goetz, the design team worked within strict parameters—site being only one of them—to preserve the historic building while ensuring its



The 25-story condominium tower connects to the 18-story hotel tower via a vertical glass "zipper." The historic Ivy, nestled into the L-shaped new construction, houses a restaurant, a spa, and hotel suites.

Interior spaces mix historic elements inspired by the Ivy with a minimalist arrangement of glass and steel.



viability as part of a larger complex. "Our client had a very strong vision," Goetz says. "So when things weren't going according to plan, we had to devise new solutions. Much of the time, the space planning was in a great deal of flux."

Originally, for example, the main lobby was the first floor of the Ivy, which features exposed concrete walls, ductwork, and massive square pillars. But the space was too tight. So two adjacent surface parking lots became the complex's new luxurious lobby, with an open stair overlooking the pocket park leading to the second level. Goetz says Nelson Design Group, which created the decor, describes the lobby as having "Jackie-O-style" classic furnishings, "winter-white" walls, and wood trim with a rich "Ivy" stain.

The first and second floors of the Ivy are now Porter & Frye restaurant. The second floor also houses the Ivy Spa Club, with treatment rooms positioned around the perimeter of the relaxation area. Offices are on the third floor. Because the Ivy's floor plates range from 2,500 square feet at street level to 1,000 square feet at the top, the rest of the building is hotel suites, concluding in a two-story penthouse suite. Where the hotel tower wraps around the Ivy, new 12-foot ceilings, 8-foot doors, and hardwood floors lead into the carpeted Ivy portion of the suites.

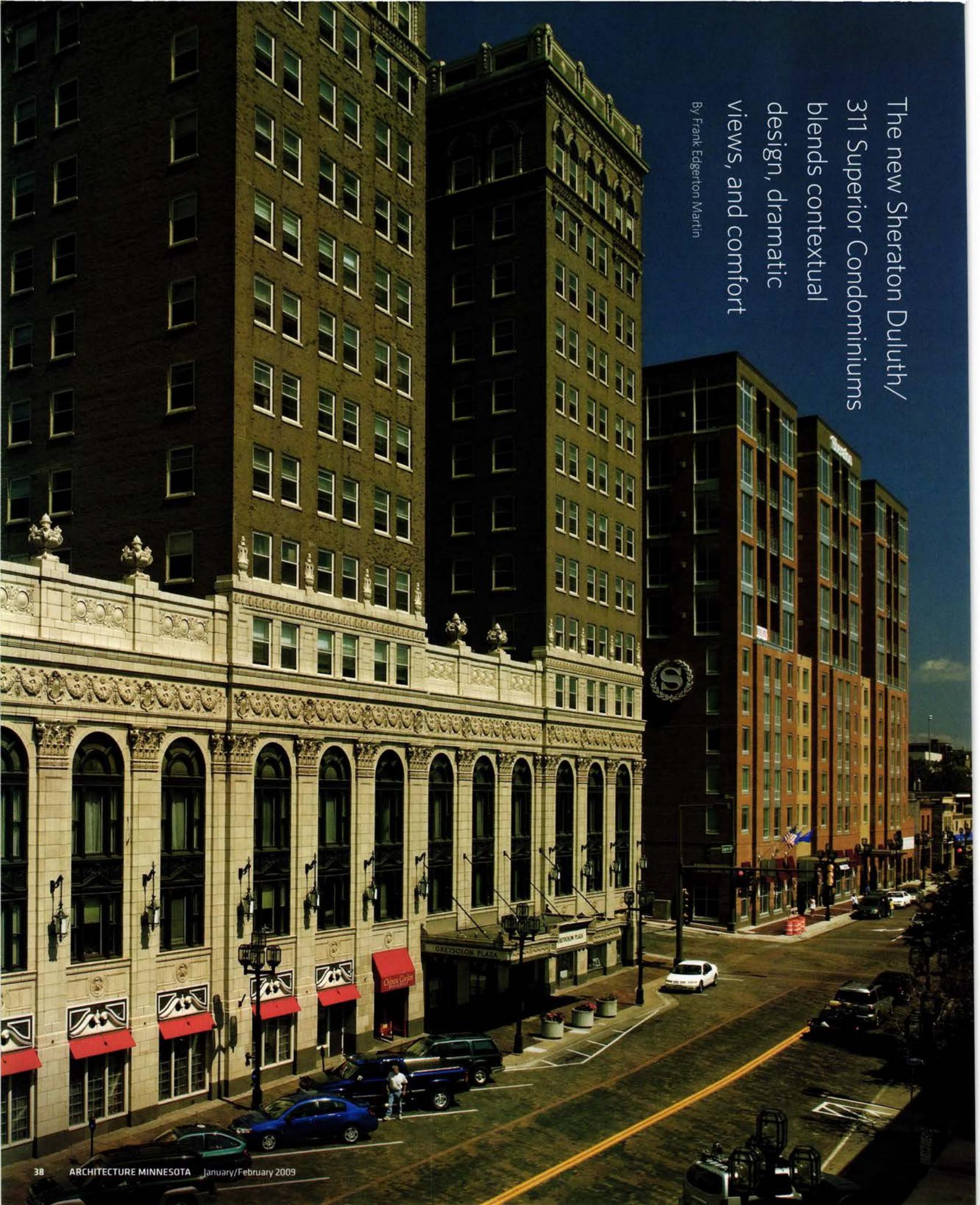
Early on in the project, the owners requested six levels of underground parking rather than four. During the excavation, Goetz says, "We went to great lengths to ensure the Ivy would not be damaged." After hand-dug vertical piers (designed to support the north side of the Ivy) hit groundwater, the owners agreed to five levels of underground parking while Walsh Bishop created a new system of soldier beams (placed into hand-drilled holes to reduce vibration) and anchored it for stability.

With the decrease in revenue from the lost parking level, the owner went back and forth on the number of floors and units in the condo

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The new Sheraton Duluth/
311 Superior Condominiums
blends contextual
design, dramatic
views, and comfort

By Frank Edgerton Martin



The Art of Fitting In

What do hotel guests really want? According to Bernie Mullen, general manager of the new Sheraton Duluth, "They want someone to look them in the eye." Whether they are business travelers who pass through five airports in a week or worried adults flying in to visit a parent in the hospital, many hotel customers spend a lot of time in alienating settings. Thus the first thing you notice when you arrive at the Sheraton Duluth is how much wood there is in the lobby, how residential it feels, and how modestly scaled the check-in desk is where the staff greet you with a smile and, yes, look you in the eye.

"Warmth, comfort, and connection," Mullen explains, are the three core values that Sheraton-operator Starwood Hotels offers its customers. Hotel architecture can take many stylistic paths. But even at a time when creative reuse projects are transforming iconic office towers (pages 28 and 34) and bank buildings into upscale hotels, leading chains often brand themselves not by a look but by an experience. For Starwood, the bottom line is consistency of service, staff who are warm, personal, and non-intrusive,

and architecture and interior design that set the right kind of stage for this human touch.

Indeed, design at all scales is essential for the long-term viability of a hotel. At the Sheraton Duluth, for example, the entry sequence from city to hotel public spaces to quiet guest room is designed to foster a sense of calm and retreat. At the same time, because many guests also crave social interaction—Mullen notes that an empty room can be a lonely place for a business traveler—the lobby offers inviting chairs, newspapers, and full-length windows that look out on Superior Street. "This is, for me, the most loveable spot in the hotel," Mullen enthuses. "We want to draw people out from their rooms."

Soon, the hotel's architect, Elness Swenson Graham (ESG) Architects, will help design "The Link"—a 24-hour Internet café adjacent to the lobby and bar area, where people can work, watch a ball game, or strike up a conversation with fellow guests. The Sheraton chain, long a diverse collection of big-city hotels and resorts, is unveiling The Link in hotels across North America as a way to hone its image for the 21st century.

The height and massing of the former Hotel Duluth, with its light-filled center court and traditional base, center, and top, is echoed in the Sheraton's two subtle recessed courts and cornice-like metal trellises that jut out over the top-floor balconies.

Opposite: Duluth's new Sheraton builds on the massing and traditional three-part façade of the elegant former Hotel Duluth across the street. Below: The lobby features an abundance of wood and large windows onto Superior Street.



Why the obsession with image and brand? In an industry as highly competitive and recession-sensitive as the hotel industry, subtle distinctions among brands—everything from soaps and towels to the quality of the bed and linens—can make the difference in maintaining profitable occupancy levels. Mullen explains that ESG and Starwood worked to modify a standard modular desk system to ensure that guest rooms offer both expansive views of Lake Superior and lots of workspace for business travelers. No innovation or refinement is too small to have an impact on customer satisfaction.

Urban Accommodations

ESG, who teamed with developer Sherman Associates and hotel-operations consultant Wischermann Partners on the project, has designed more than 100 hotels and resorts in the U.S. and the Caribbean, so it knew how to translate the aspirations of Sheraton's "experiential brand" to the realities of the hotel's narrow, sloped site and urban context. The 11-story building, which houses 311 Superior Condominiums above the

Below: Atop the Sheraton, five levels of condominiums overlook Duluth-Superior Harbor. Opposite: The hotel lobby, which shares its fireplace with a restaurant, offers guests a club-like setting for coffee, drinks, or conversation.

six-floor hotel, is clad in brick whose colors reflect the 19th-century brown- and red-stone commercial buildings across Superior Street and the light brick and terra-cotta of the former Hotel Duluth just to the west. ESG principal-in-charge Paul Mittendorff, AIA, says the architects sought to design a building that "adds to the fabric of the city and shapes the public street realm."

Pedestrians strolling east up Superior, across the street from the old Hotel Duluth, can see just how successful ESG's contextual design is. The height and massing of the towering landmark, with its light-filled center court and traditional base, center, and top, is echoed in the Sheraton's two subtle recess courts and cornice-like metal trellises that jut out over the top-floor balconies.

As the first mixed-use hotel and condominium project in Minnesota, the building responds to two different programs and user groups. Whereas the more inward-focused hotel serves business and medical travelers who desire privacy in a downtown location, the single-loaded condominium floors are, in the words of ESG project manager Brian Ivers, AIA,

>> continued on page 61

Because many guests crave social interaction, the lobby offers inviting chairs, newspapers, and full-length windows that look out on Superior Street. "This is, for me, the most loveable spot in the hotel," says general manager Bernie Mullen.





**SHERATON DULUTH/
311 SUPERIOR CONDOMINIUMS**

Location:
Duluth, Minnesota

Architect:
Elness Swenson Graham
Architects, Inc.
www.esgarch.com

Principal-in-charge:
Paul Mittendorff, AIA

Project lead designer:
Loni Strassman, AIA

Project managers:
Brian Ivers, AIA; Michael Ryan, AIA

Client:
Sherman Associates
www.sherman-associates.com

Hotel operator:
Wischermann Partners, Inc.

Hotel interior design:
Manda Morales (ESG)

Condominium interior design:
CF Design, Ltd.

Structural engineer:
Meyer, Borgman and Johnson, Inc.

General contractor:
Oscar J. Boldt Construction

Size:
195,251 gross square feet

Cost:
Hotel: \$16 million;
condominiums: \$13 million

Completion date:
May 2007 (hotel)

Photographer:
Landmark Photography & Design LLP



ON FOOT

Got some free time during your stay at the Sheraton Duluth? There's a lot to see and do in walking distance.

Pickwick Restaurant
pickwickrestaurant.com
508 East Superior Street

The Pickwick began life in 1888 as the Fitger's Brewery Old Saloon, where visitors could sample the product. The saloon relocated next door in 1914 and inexplicably took on the Dickensian name Pickwick. As you walk into the Bar Room and the Dutch Room, note the elegant white-oak woodwork designed by one of Minnesota's most playful architects, Anthony Puck. Paintings of barmaids, monks, and beer-brewing gnomes adorn the walls. Views of Lake Superior lie beyond. Make a reservation and be sure to try the smoked whitefish appetizer.

Coney Island—The Original
105 East Superior Street

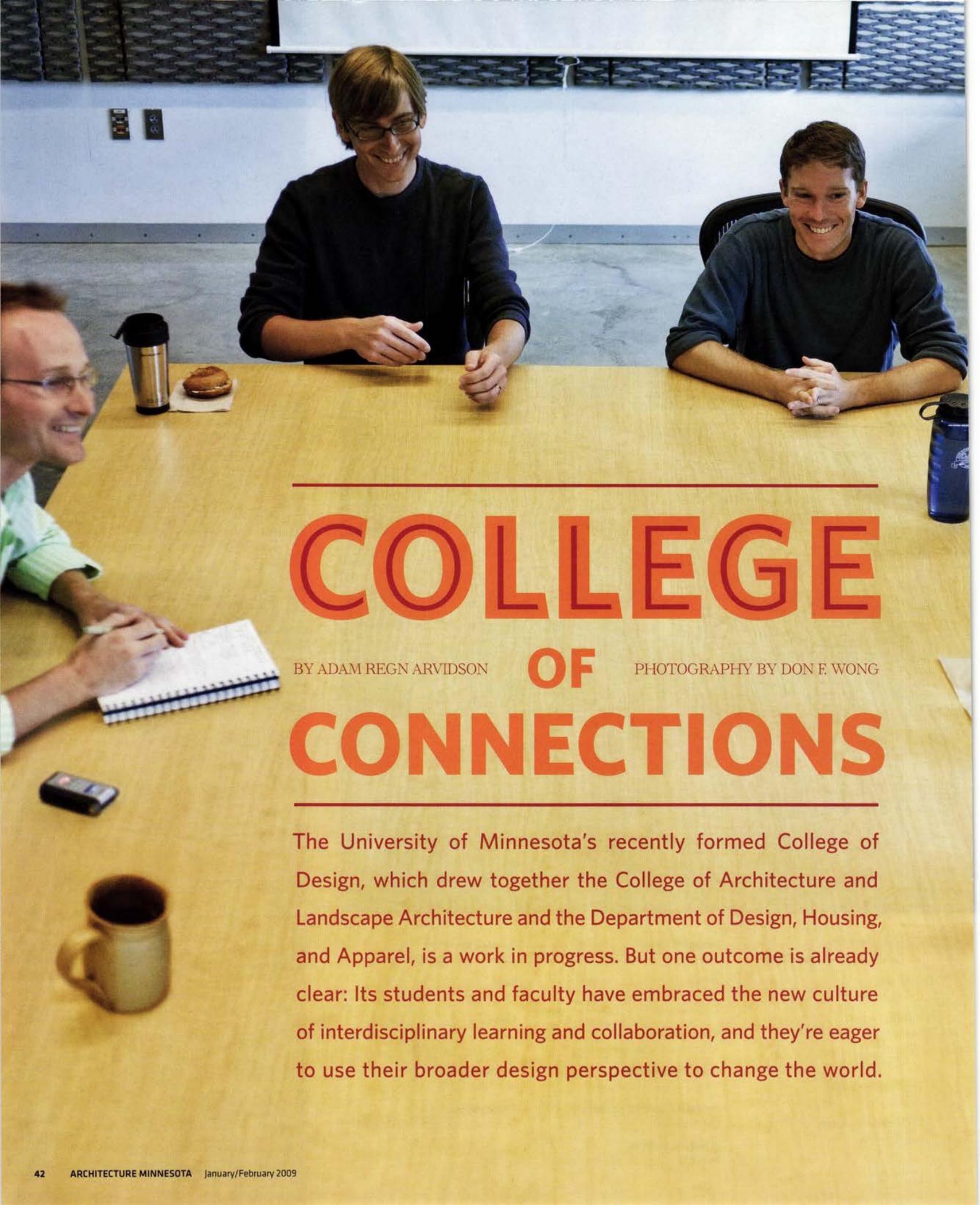
Coney Island has been an East Superior Street mainstay since 1921. Long owned by a Greek family, the operation has passed into new hands, but it still has the original menus on the wall, photos of old Duluth, the original Coney sauce, gyros, and value breakfasts. If cities have character, it comes from places like this.

Strolling First Street

First Street, which parallels Superior Street one block up the hill, has slowly rebounded after years of decline. Walk west to peruse its many small businesses. To the east, you'll discover run-down but character-filled buildings such as the 1896 neoclassical, red-brick Shrine Auditorium and stone row houses that, had they been in Minneapolis, would likely have been knocked down years ago.

European Bakery
www.europeanbakery.net
109 West First Street

Russian-Jewish immigrant Harry Glazman founded this landmark in 1913, and it's been run by the Glazman family ever since. The bakery and store offer kosher foods including borscht, potica (a pastry roll), halvah (a sweet treat), and its trademark braided challah bread.



COLLEGE OF CONNECTIONS

BY ADAM REGN ARVIDSON

OF

PHOTOGRAPHY BY DON F. WONG

The University of Minnesota's recently formed College of Design, which drew together the College of Architecture and Landscape Architecture and the Department of Design, Housing, and Apparel, is a work in progress. But one outcome is already clear: Its students and faculty have embraced the new culture of interdisciplinary learning and collaboration, and they're eager to use their broader design perspective to change the world.



Around the Table

Five College of Design students sat down with *Architecture Minnesota* contributor Adam Regn Arvidson (opposite, left) to share their experiences in the new college and their aspirations for the road beyond.

Clockwise from top left:

Zach Jorgensen

Degree track: M.L.A. (third year)

Background: Undergraduate degree in biology (botany focus) with a minor in art from St. John's University; previously worked in the nursery industry and as a landscape-installation crew leader.

Interests: Studying how landscapes work across regional and ecological scales and how the urban and rural matrices interact; Center for Rural Design (page 49) research assistant; Solar Decathlon (page 46) team member.

Craig Hutchison

Degree track: M.Arch (third year)

Background: Raised in Montana; studied architecture and environmental policy at Washington University in St. Louis; spent three years working in the field before entering graduate school.

Interests: Exploring how architecture and urban planning can be used to reduce society's ecological footprint; learning how architects can play a more persuasive role in policy matters.

Kristin Helle

Degree track: Ph.D. in Design Communication (second year; completed M.F.A. with an emphasis in Interactive Design in 2008)

Background: B.A. in International Relations and Spanish from University of Wisconsin-Madison; worked variously as marketer, house painter, waitress, substitute teacher, wedding coordinator, and freelance graphic and web designer.

Interests: Exploring the relationship between designed space and immigrant cultural and political identity from a graphic-design perspective.

Shengyin Xu

Degree track: M.S. in Sustainable Design (third year; received M.Arch in 2008)

Background: B.S. in Architecture from the University of Maryland; worked in a residential architecture firm outside Washington, DC, for a year and a half and became LEED-accredited.

Interests: Integrated or cross-disciplinary design and its influence on both the process and product; life-cycle assessment of materials and building systems in terms of energy usage; regional and planning approaches to designing for watersheds and natural systems.

John Steingraeber

Degree track: M.Arch (second year)

Background: B.A. in English, A.A.S. in cabinetry; former Outward Bound instructor; five years' experience in custom residential cabinetry and furniture.

Interests: The connection between narrative and architecture; sustainability; digital fabrication and its connection to redefining ideas about craft; applying architectural problem-solving to areas outside of architecture; urban studies.



A Day in the Life

Jessica Haverstock, a senior pursuing a B.A. in Architecture through the College of Liberal Arts, shares a typical day for an architecture student.

8:00-9:00 A.M.

The alarm sounds and I hit the snooze. I wake up with just enough time to pull on a pair of jeans and a sweater, make a pot of coffee, and grab a small bite on my way out the door. The short 15-minute walk to campus is a nice way to ease into the morning.

9:00-Noon

Arriving at Rapson Hall, I head upstairs to my class, Diagramming in the Digital Environment. Dan, my professor, starts up studio by having us fill out project evaluations from Monday's final pinup. Then we begin our next assignment, a continuation of our last: joining two diagrams that capture essential qualities of the buildings they are derived from. We all head to the computer lab and start modeling. SketchUp software is my friend.

Noon-2:00

My stomach is rumbling—it must be time to eat! Back to the house to make lunch and respond to emails before heading to work.

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"I gravitated toward design," says CDes student Kristin Helle, "because I knew it was a way for me to do three things: solve problems, be creative, and serve people."

Architects design buildings. Therefore architecture schools should teach their students how to design the best buildings, right?

Actually, it's not that simple, especially at the University of Minnesota, where the relatively new College of Design (CDes) is expanding the definition of architectural instruction. "I gravitated toward design," says CDes student Kristin Helle, "because I knew it was a way for me to do three things: solve problems, be creative, and serve people." Not much

its interdisciplinary focus, and what they hoped to do with their degrees. The students, introduced on the preceding spread, seemed at ease with each other even though some had never met, and there was none of the stereotypical design-school hierarchy that puts architecture at the top of the ladder and other design avenues on lower rungs. But most striking was how articulately the five expressed their deeply held views about culture, the environment, and a designer's responsibility in the wider world.



Creative energy leads to clutter in Rapson Hall's studio spaces. Models on tables and drawings pinned to walls serve as foundations for ongoing design and discussion.

about architecture there, which is fitting, because Helle isn't studying architecture. She completed her M.F.A. in Interactive Design in 2008 and is currently pursuing a Ph.D. in Design Communication.

Helle is emblematic of today's CDes students, whose backgrounds are not always tailor-made for their chosen fields and who often are more interested in broader societal and environmental ideas than in the design of individual projects. Recently, *Architecture Minnesota* brought five students from four different CDes programs together and asked them why they were attracted to the college, how they felt about

After our wide-ranging conversation with the students, we visited studios and classrooms on both the Minneapolis and St. Paul campuses and spoke with faculty from a variety of programs. Generally speaking, faculty members see the students' acute interest in global humanitarian design as a somewhat recent and exciting development. All of the students and faculty we talked to enthusiastically echoed Helle's aspiration of serving people through creative problem solving, and all felt that the broadly interdisciplinary College of Design could—and should—facilitate that.



Students often work in groups and across disciplines—a reflection of the professional world they plan to enter.

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2:00-5:00

I arrive at Charles Levin Architects. It's just Chuck and me in the office today. I start up my computer, change the backup tapes in the server, and take a seat at my desk to look through my inbox. My goal is to submit a pre-design booklet to the printer by day's end. We make alterations to the layout and composition and manage to catch a few mistakes, too. In between corrections, Chuck quizzes me on the six phases of design. I get them all right! The final draft is completed and sent to Albinson.



5:00-8:00

I drive home and meet up with one of my high school friends to grab some dinner and celebrate her new job. We walk to a small sushi joint in Stadium Village. It's nice to get a break from architecture.

8:00-Midnight

I head back to the Rapson computer lab and see many familiar faces. "Go home!" we joke as it starts to get late. One by one students trickle out, until the lab attendant gives us the final 10-minute warning. I'm exhausted. Time to get some rest before another full day.



JOE MESSIER

Solar Activity

Picture a neighborhood of 20 solar-powered homes, each sporting the latest in energy technology and high design. Now imagine that neighborhood on the National Mall in Washington, DC. That's the Solar Decathlon (www.solardecathlon.org), a biannual, U.S. Department of Energy-sponsored competition that challenges teams of college and university students to create the houses of the future. The 2009 event is under way, and, for the first time, the University of Minnesota is a participant.

"It's always good," says College of Design dean Thomas Fisher, "to have projects like this at the edge of our curriculum." That might be an understatement, because the Solar Decathlon represents everything the College of Design stands for: an opportunity for interdisciplinary study and collaboration with an environmental focus. The roughly 150-person Minnesota team is loaded with, but not limited to, students from five of the seven CDes departments and budding engineers. In all, 14 working groups are each responsible for a particular aspect of the project, such as architecture or transportation.

The U applied for and won a spot in 2007, and the assembled team began designing its 800-square-foot entry—a traditional gabled house with an offset ridgeline—in January 2008. In October 2009, it will transport the structure to the nation's capital for public viewing. Judges will award points in 10 separate contests, including market viability, lighting design, hot water, and appliances.

Two primary goals of the competition, according to the Department of Energy, are to educate students and the general public about the potential benefits of energy efficiency and green-building technologies, and to foster collaboration among academic disciplines. Shengyin Xu, who leads the team's architecture group, says that collaboration has been the most challenging—and rewarding—aspect of the project. The team had to work through real differences in thinking and communication style before hitting its stride with a retooled design process. "We're in a happy stage," says Xu. "A little behind, but happy."

To follow the team's progress, visit www.solardecathlon.umn.edu.

NEW OPPORTUNITIES

The College of Design officially formed in 2006 through a merger of the College of Architecture and Landscape Architecture (CALA) in Rapson Hall on the East Bank campus and the Department of Design, Housing, and Apparel (DHA) in McNeal Hall on the St. Paul campus. The new college brings together architecture, landscape architecture, interior design, graphic design, housing studies, clothing design, and retail merchandising. It was years in the making, and it's still, in many ways, a new relationship, with the two halves exploring their own boundaries, discovering what the other has to offer, and deciding how much of themselves to give up. CDes dean Thomas Fisher, Assoc. AIA, believes the merger is a natural one because the disciplines, though diverse, all speak similar languages and hope for similar outcomes: better ideas with positive impacts. But what, honestly, does architecture have in common with clothing design?

Marc Swackhamer would know. The assistant professor of architecture is currently working with a colleague in Houston on multi-functional wall prototypes. Because of the many roles these walls must play—structure, storage, ventilation, daylighting, and insulation, to name a few—Swackhamer regularly collaborates with biologists, chemical engineers, aerospace engineers, computer scientists, and, yes, professors over on the St. Paul campus. Case in point: In 2007, he developed the Drape Wall/Cloak Wall prototype for the College of Design's "Here by Design III" exhibition, at the invitation of curator

and graphic-design professor James Boyd-Brent. The apparel link? Swackhamer produced the piece with clothing-design faculty Missy Bye and Karen LaBat on that department's apparel welder. The Drape Wall/Cloak Wall went on to win an R+D Award from *Architect* magazine—an achievement made possible by new academic relationships.

Swackhamer is not alone in making new connections. The School of Architecture and the Department of Landscape Architecture have been offering joint studios. The University of Minnesota's Solar Decathlon team includes representatives from five of the seven CDes departments (see sidebar, left, for more on the Solar Decathlon competition). Graphic-design professor Steven McCarthy has been bringing students to Rapson Hall to use the automated laser cutter there. Last year the college set up a McNeal Hall visit for a group of architecture students interested in learning from clothing designers how patterns are made and produced. And a new program in product design, currently in the planning stage, will merge design, engineering, and business, further extending the college's collaborative reach.

"I find an eagerness among students," says Kate Solomonson, associate dean of Academic Affairs, "to learn about and connect with other fields. We are seeing the beginning of modifications to our curricula, but that's a slower process than student curiosity." But Shengyin Xu, an M.S. in Sustainable Design student and Solar Decathlon team leader, says the curriculum has been important, too. "It's nice that we get to take classes outside our field,"



In the pursuit of innovative design, students use tools ranging from T squares and markers to sophisticated computer modeling programs.

Studio sessions are informal and vary according to the tasks at hand. They often begin with a group meeting to discuss project process, upcoming field trips, or publication of group work. The students then break out to work individually or in smaller groups.



All in the Family

The College of Design is home to three main academic units and an impressive roster of design-related centers, institutes, and initiatives. For more information on these various entities, including explanations of the undergraduate and graduate programs offered by each department, visit the websites listed below.

School of Architecture

arch.design.umn.edu

Department of Design, Housing, and Apparel

dha.design.umn.edu

Departments include clothing design, graphic design, housing studies, interior design, and retail merchandising.

Department of Landscape Architecture

landarch.design.umn.edu

Goldstein Museum of Design

goldstein.design.umn.edu

The only design museum in the Upper Midwest annually presents three exhibitions plus a senior student show. Exhibitions range from clothing and textiles to decorative art and graphic design. Most are accompanied by programs for university and community audiences.

Metropolitan Design Center

www.designcenter.umn.edu

MDC outreach, research, and teaching programs focus on emerging metropolitan-scale design issues and innovative interdisciplinary projects that directly enhance neighborhood and community sustainability, develop new knowledge on urban design performance, and prepare the next generation of urban design professionals.

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LESLIE VAN DUZER

Into Africa

Last May, six architecture students traveled to Malawi, one of the poorest countries in the world, redefining what it means to study abroad. They spent three weeks in the country's far north documenting and designing a campus for the University of Livingstonia. It was challenging work. "It was," says professor Leslie Van Duzer, who led the trip, "as close to heaven as one could hope to be."

The idea for the studio originated with John Ziegenhagen, who does strategic planning for the University of Minnesota. He had spent six months in Malawi lending his expertise to Livingstonia, a new merger of five colleges on two separate historic Presbyterian mission stations. Upon his return, Ziegenhagen contacted the College of Design to find faculty willing to tackle one of the major challenges facing the school: planning and design of new facilities.

With money raised for the trip, Van Duzer and her students bought a laptop loaded with software and a laser-surveying device; both were left with Livingstonia. They brought old laboratory equipment from a local school, and the university bookstore let them raid its shelves for school supplies for Malawian children.

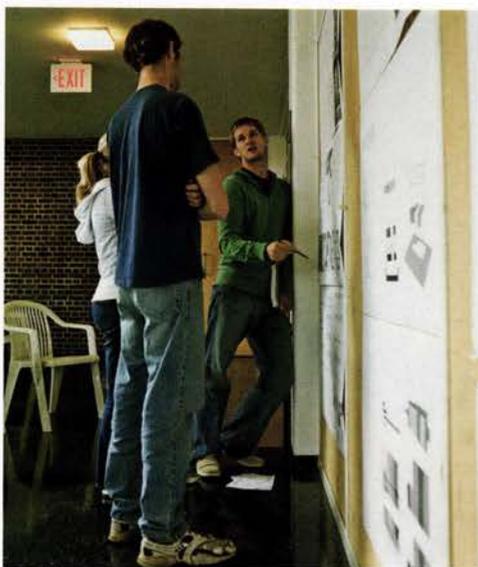
Once in Africa, the students set about making base maps of both campuses and design drawings for buildings and courtyards. They also worked with a local committee to create a project list and cost estimates, in hopes of securing funds from outside Malawi for things like restoring fishponds and rehabilitating elementary schools.

And the project continues. Van Duzer plans to take another group to Malawi this May, and last year's graduate assistant, Kar-Keat Chong, Assoc. AIA, has convinced his current employer, HGA, to perform pro-bono design work for Livingstonia's Ekwendeni campus. "This was an unusual May-term trip," says Van Duzer, "because it was a service and learning trip." As such, it offers proof that students in study-abroad programs can actually enrich the places they visit.

"I find an eagerness among students," says associate dean Kate Solomonson, "to learn about and connect with other fields. We are seeing the beginning of modifications to our curricula, but that's a slower process than student curiosity."

she says. "My old school had a very modernist pedagogy: This is the architect who designs the building and everyone has to look at it because it's pretty. It was good to switch to a more integrated approach to design."

Xu recently took a housing-studies class that looked at public housing in Chicago and elsewhere. "I learned," she says, "that design can do a lot,



The walls of Rapson Hall are usually covered with works in progress, sparking impromptu discussions between students.

but there are limitations, and you need to think about the other realms—cultural aspects, policy, funding—before talking about a solution. That experience helped me see how you can use design in a more ethical way."

A SOCIAL AND ENVIRONMENTAL FOCUS

Xu's observations touch on another concept that was widely embraced during our sit-down with the students. Call it humanitarianism, altruism, sustainability, or something else; it is the idea that design exists not for the glory of the designer (Xu's "modernist pedagogy") but for the benefit of others. CDes students have participated in service trips to Malawi (see sidebar, left),

where they mapped and designed new campuses for the University of Livingstonia, and to Biloxi, Mississippi, where they created a "solar-powered, rainwater-harvesting, water-filtering, self-composting urban farming machine."

"Architects and designers can affect people's everyday lives," says architecture student Craig Hutchison. "Everyone in the middle class goes to school, works in an office, lives in a city. These are areas where architects have the most potential influence. It's no longer high-end residential construction that has the most relevance." But residential construction can matter, too, says Helle. Last year she served as a research assistant for a project that dealt with refugee and immigrant housing. "Residential space is very important in terms of cultural identity and transition," she explains. "Minnesota is undergoing massive changes culturally, so how do we serve our Somali population or the needs of Native Americans? How do we allow them to be who they are inside their homes?"

And then there's the environment. "We have a responsibility," Hutchison emphasizes, "to let people who occupy our buildings know that they're part of a natural system. A city, even, is a part of the larger ecology." Landscape architecture student Zach Jorgensen concurs, citing his program's focus on looking beyond the site to the wider region. Then he circles back to the interdisciplinary nature of the college. "I think the crossing over of classes," he says, "really helps with an understanding of sustainability. Seeing how architects deal with it and how land-use planners deal with it really broadens the experience."

THE NEXT CHALLENGE

There is, unfortunately, a barrier to true interdisciplinary study and collaboration at the College of Design: the miles that separate Rapson Hall and McNeal Hall. "Our biggest hurdle," says Swackhamer, "is a logistical one: getting the St. Paul departments onto the Minneapolis campus.

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Center for Sustainable Building Research

www.csbr.umn.edu

Through research, outreach, and education, CSBR leads and supports the transformation of the regional built environment in ecologically, economically, and socially sustainable ways. The center helped develop the Minnesota Sustainable Building Guidelines (commonly known as B3) and will guide the development and implementation of the building performance standards for the new Minnesota Sustainable Building 2030 Law.

Center for Rural Design

ruraldesign.cfans.umn.edu

CRD brings together the expertise of the College of Design and the College of Food, Agricultural, and Natural Resource Sciences, as well as that of other centers and colleges within the university, to address diverse physical, social, and economic problems facing rural Minnesota.

Center for Changing Landscapes

ccl.design.umn.edu

A partnership between the College of Design and the College of Food, Agricultural, and Natural Resource Sciences, CCL addresses issues of social, economic, and ecological sustainability in changing landscapes by linking expertise in natural resources management, architecture, landscape architecture, and urban design.

Center for World Heritage Studies

worldheritage.design.umn.edu

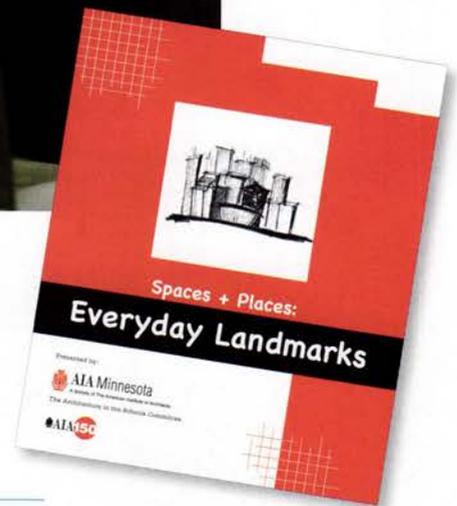
Dedicated to research and education in the protection, conservation, and enhancement of global heritage, the Center for World Heritage Studies was formed by the College in 2005 in conjunction with a formal agreement signed with UNESCO's World Heritage Centre in Paris. The relationship is unique among American universities.

The Rapson Hall atrium is both a study hall and a social hub; McNeal Hall on the St. Paul campus could use a similar space. Plans to bring all seven disciplines together on the Minneapolis campus are still in the early stages.



DON F. WONG

Drawing Them In



Architects visit classrooms across the Twin Cities to explain just what it is they do. For many students, it's their first exposure to the profession—and a chance to learn by drawing.

By Camille LeFevre

"Art?"
"Drawing?"
"Designing stuff?"

When asked, "What is architecture?" the fifth-grade students at Andersen Elementary in Minneapolis weren't particularly shy. They sat at their desks and listened attentively (for the most part) as Marie Parish, Assoc. AIA, a designer with the Foundation Architects, engaged them in an hourlong, hands-on workshop about the fundamentals of architecture.

As Parish ran through a landmarks-of-the-world slideshow, the students oohed at a picture of the IDS, they ahd at the Stone Arch Bridge

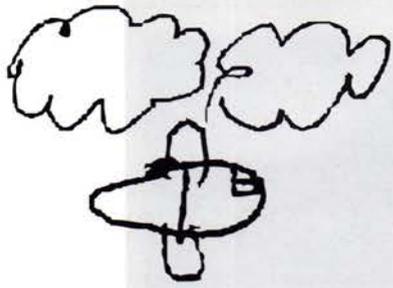
("I live near there!" one girl exclaimed), and a low roar accompanied a photo of the Mall of America. Then out came "Spaces + Places: Everyday Landmarks," a workbook created by AIA Minnesota's Architecture in the Schools Committee, and a lesson began on how to draw an imagined landmark in elevation, section, and plan.

After a few minutes of hesitation, the students put pencils to paper and were soon sharing their ideas—a water park, a statue outside the school, a volcano embedded with electronic games—with the whole class. "Fifth graders are really good at absorbing this sort of information," says Parish, who leads the Architecture in the

Schools program. "They're not afraid to express themselves, and this class was particularly impressive—well behaved and really excited to share, which is an indicator that they have a friendly, supportive classroom." One young fellow, in fact, drew all three views of his landmark. "He caught on really fast," Parish says. "When that happens, it's exciting to see a little bit of yourself in these young students."

Filling the Gap

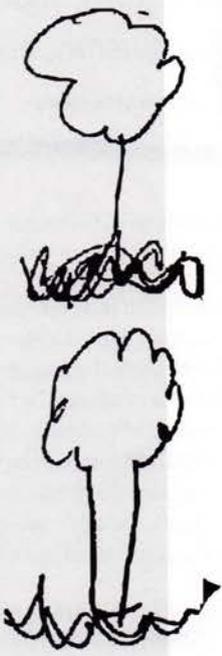
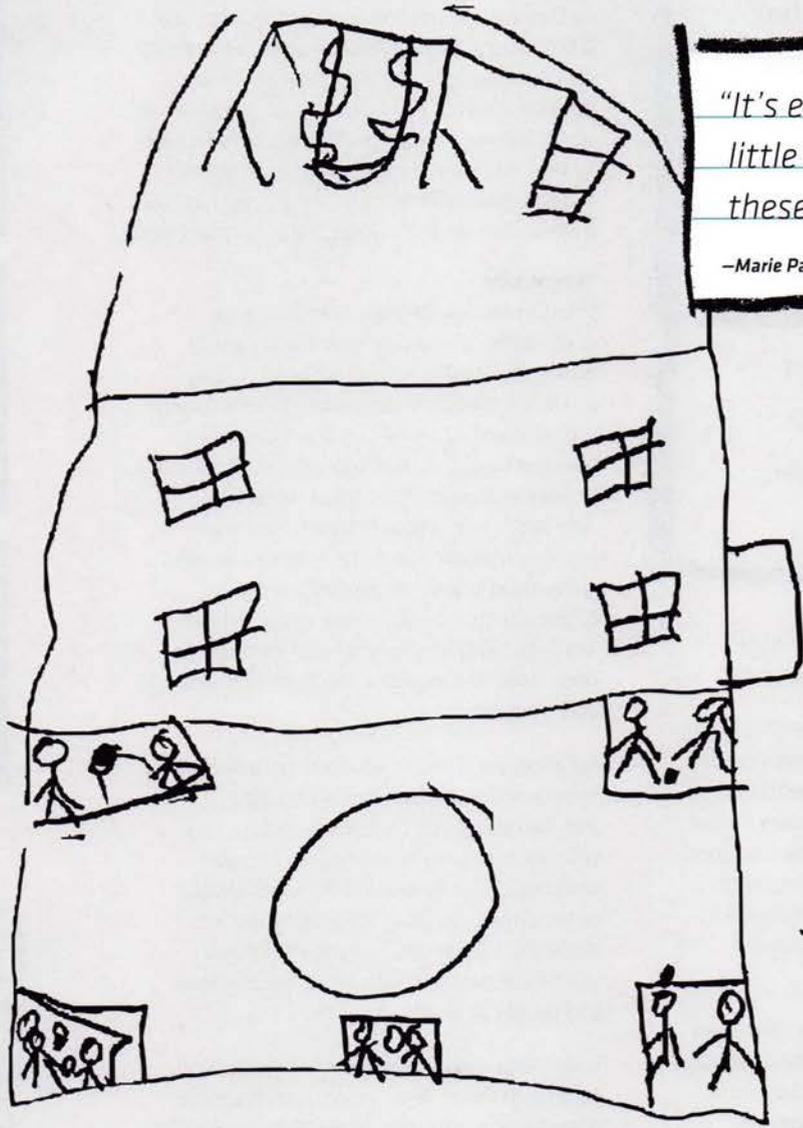
AIA Minnesota pioneered its Architecture in the Schools program back in the 1980s, and now more than 100 of its members volunteer each year to visit K–12 classrooms throughout



"It's exciting to see a little bit of yourself in these young students."

—Marie Parish, Assoc. AIA

STOP
bus



What's the Big Idea?

Design of the program and building were to adapt to the building. It is a positive activity and connects student learning to design, architecture, and building. Design by reflecting a type of action to show they would like to create.

A Landmark is a building that helps you remember a place or place. What kind of Landmark would you design for your neighborhood or school? Describe your idea below.

My Landmark would be the school and the cater bridge.

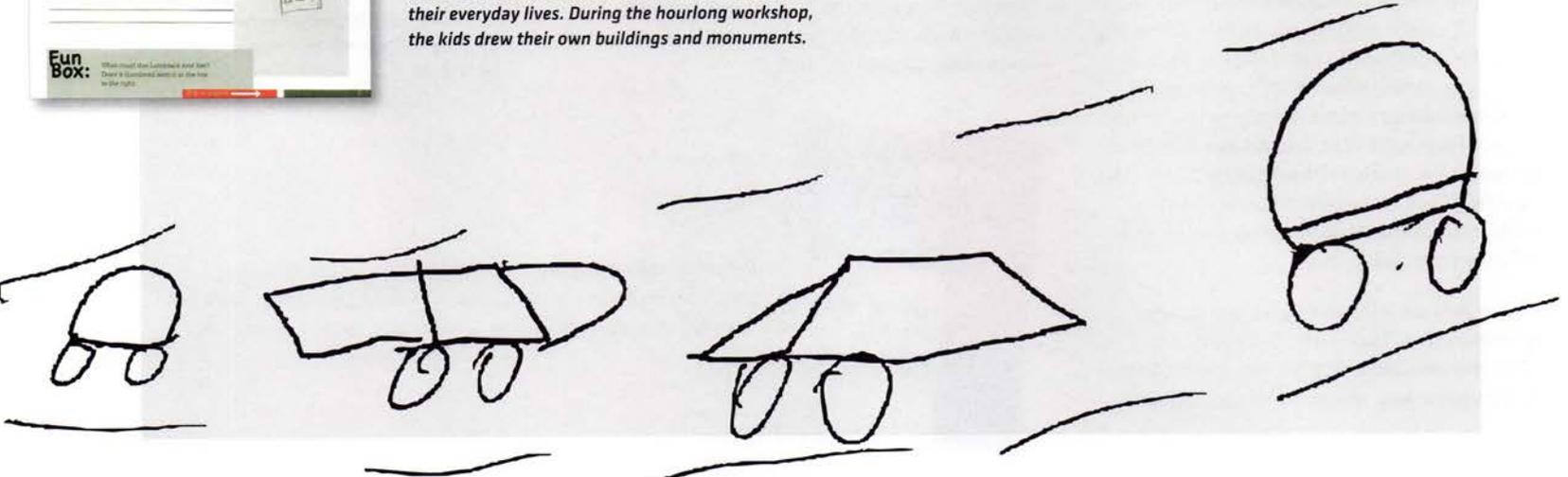
Thumbnail:

Thumbnail drawings are small-scale drawings that are used to explore different ideas and concepts for a project. They are often used to communicate ideas to others and to refine a design.

Fun Box:

What would the Landmark look like? Draw a thumbnail sketch of the idea in the right.

Designer Marie Parish, Assoc. AIA (opposite), explained to fifth-grade students at Minneapolis' Andersen Elementary how architecture is part of their everyday lives. During the hourlong workshop, the kids drew their own buildings and monuments.



"A lot of kids are interested in the way things are constructed. Some kids are naturals at visual thinking. But they haven't been encouraged to look around their neighborhoods and think about the structural differences between houses, signs, parks, churches, and stores."

—Steve Date, teacher

Minnesota to introduce students to "what architects do on a daily basis," Parish says.

To help fulfill its mission statement—"To equip architects and educators with the tools needed to introduce the concepts of architecture to students of all ages"—the program has produced a variety of materials. The workbook, designed for fifth graders, can be "taken a few grades up or down," Parish says. Even kindergarten students, she adds, are able to grasp some of the concepts in the workbook.

High-school students receive a flyer, "Being an Architect," that describes the education, training, and career opportunities that exist for young people interested in pursuing a career in architecture or design. "We learn a lot of things in school, but architecture and design are not usually among them," Parish says. Steve Date, the teacher whose fifth-grade class Parish visited, agrees. "It's not a subject area we talk about very much, because it's not part of the curriculum of the education system today," Date explains.

"If a subject doesn't relate directly to test scores, it's not encouraged. Still, architecture and design are topics I've wanted to incorporate in my class for a long time, so presentations like Marie's are a great introduction to the subject, as well as to the profession."

"A lot of kids are interested in the way things are constructed," Date adds. "Some kids are naturals at visual thinking. But they haven't been encouraged to look around their neighborhoods

and think about the structural differences between houses, signs, parks, churches, and stores."

At the same time, he continues, kids relish learning about professions like architecture so they can begin considering, at an early age, their options for higher education. "They really don't get exposed to a variety of professional options, whether those options are for pleasure or for income," Date says. "Ideally, we'd be able to take our students out into the community to meet with professionals, but a program like Architecture in the Schools is the next best thing."

Teaming Up

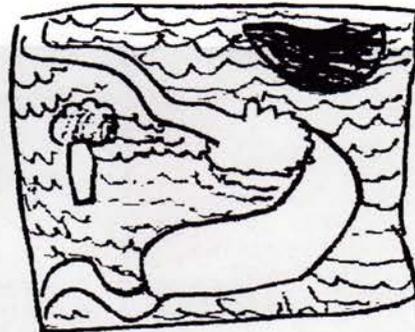
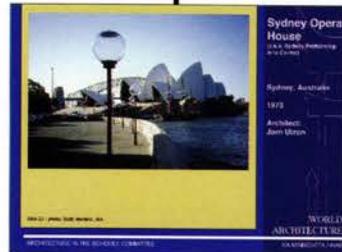
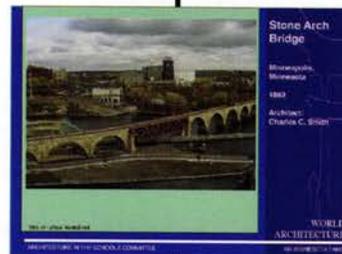
What's next for the program? This year, it will begin partnering with the nonprofit SiteSeeing: Making Neighborhoods Visible, an interdisciplinary curriculum for elementary-school students created by Mary deLaitre, who has taught at the University of Minnesota's College of Design. The aim of SiteSeeing is to teach young people how to see, read about, and think about the built and natural environment, and the program is set up differently from Architecture in the Schools: Teachers learn the material and then guide their students through 12 sessions of discussion and exercises.

Architecture in the Schools will help SiteSeeing with communications and advertising, and SiteSeeing will coordinate architecture volunteers to present the Spaces + Places workbook. "SiteSeeing doesn't have design professionals teaching the curriculum to students," Parish says, "so our workbook will be the students' link to the architecture and design profession."

Date's fifth-grade class, for one, couldn't get enough of their introduction to architecture. "They were so enthused while Marie was in the classroom, and after she left," Date says. "As I collected their workbooks, they all expressed that they wanted to do more. And the next day, they brought it up again. They couldn't wait to work with the materials again. They were really motivated." **AMN**

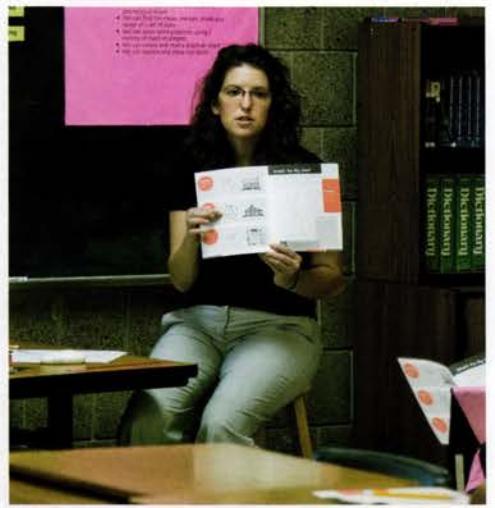
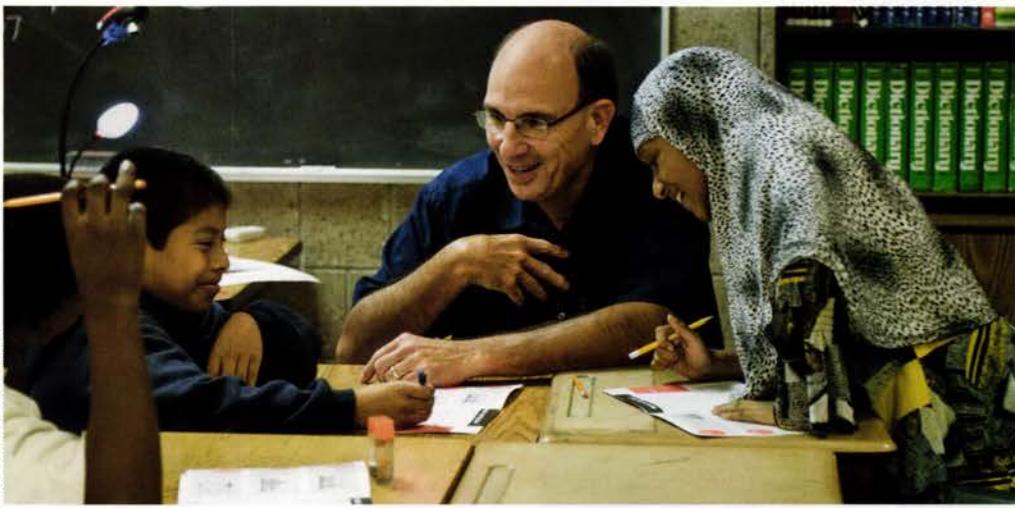


The program began with a slide show of architectural monuments in the Twin Cities and around the world.



The student sketches were highly imaginative. The program taps into kids' natural enthusiasm for drawing.

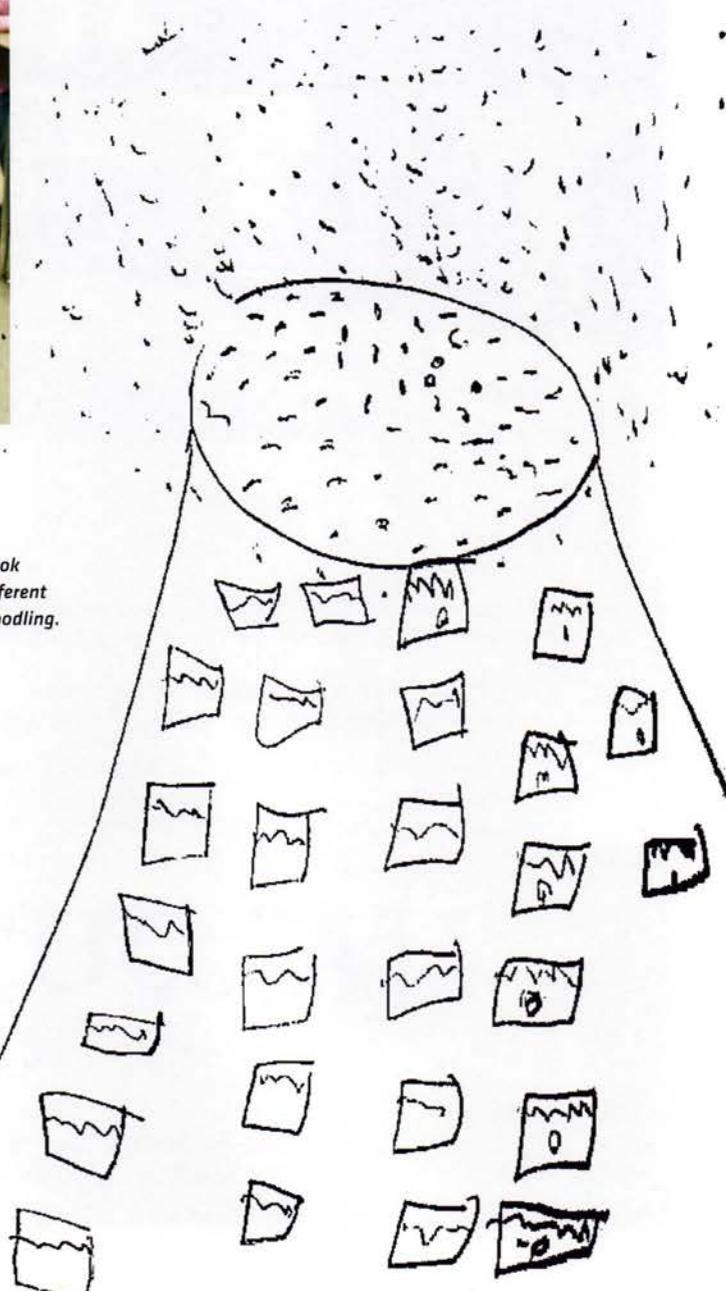
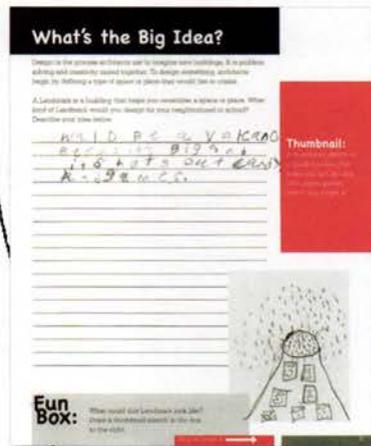
For more information on the Architecture in the Schools program, including how to request a classroom visit, check out www.aia-mn.org/committees/architecture_in_the_schools.cfm



Teacher Steve Date helped students put thoughts to paper after Parish engaged them in a hands-on workshop about the fundamentals of architecture.



What's the Big Idea? The Spaces + Places workbook includes simple instructions for drawing from different architectural perspectives, and blank pages for doodling.





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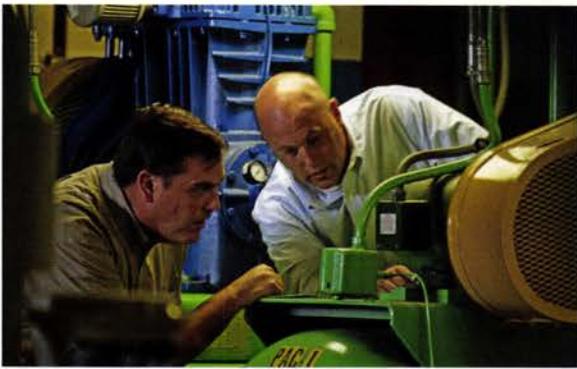
Spanning Time

<< continued from page 17

engineering landmarks, increasingly recognized for their technical beauty and value as civic icons, have received greater protection at the state and federal levels. The Minnesota State Historic Preservation Office now has three "historic contexts" covering masonry bridges, iron and steel bridges, and reinforced-concrete bridges. By understanding each bridge in terms of the technology and social events of its era (such as the advancement of the iron truss in the 19th century, the Good Roads Movement of the early 20th, and the New Deal works programs), we can achieve a better perspective on which valuable examples to save. Yet there is one challenge that even the most cost-effective renovation can't address: increased traffic, such as the commuter flow that plagues the trussed Stillwater Bridge. In these instances, the best preservation option may involve other transportation options. More public transit choices, perhaps?

Gardner richly details each site and structure as only a preservation historian can, but the volume lacks one key layer of information: maps that locate bridges, old military roads, state highways, and trails. Readers not well acquainted with Minnesota geography are advised to keep a good map at hand.

Some of Minnesota's greatest bridges—for example, Minneapolis' St. Anthony Falls—spanning Stone Arch Bridge, Duluth's Aerial Lift Bridge, and the reinforced-concrete Mendota Bridge (the most expensive of four options when built in the 1920s)—represent a civic consensus and willingness to make long-term public investments. There was a time when the engineers and builders of a bridge mounted a plaque with their names and the date of completion on it. Today, highway departments often denote bridges with a number. More than ever in our sprawling cities and towns, we need to think about bridges not just as infrastructure but as places, gateways, and markers. Consider how many people have traveled over the four versions of the Hennepin Avenue Bridge, or the Lake Street Bridge, or the number of students who have walked across the Washington Avenue Bridge. Minnesota's bridges, old and new, are critically important for the human connections they make possible. When we think about them that way, the quality of their details and engineering matters even more. **AMN**



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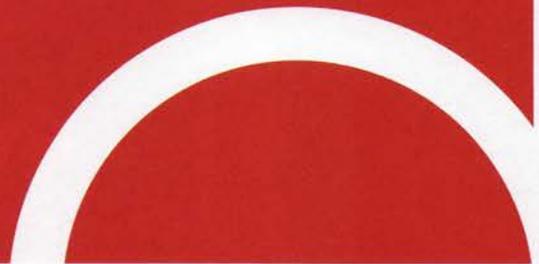
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Real to Real

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When I first saw Anderson's paintings of the I-35W bridge construction site, I assumed he had settled on his subject matter because he liked structures, architectural forms, or maybe even urban planning. It was pleasantly disarming to hear him say that, when the bridge fell down, it opened up a new vista looking downriver to the falls, spillway, locks, and Stone Arch Bridge. "And vistas are a little scarce in southern Minnesota," he added.

It wasn't even his original intention to paint the bridge construction, per se; he simply liked how the bridge structure, scaffolding, and construction equipment looked against the natural surroundings of the river, and he thought it would make a good painting. Nor did he have a series in mind when he did the first painting. But the constantly changing scene suggested new paintings, and soon he had accumulated an impressive collection of canvases.

By any standard, Anderson's landscape paintings show a high level of craft, but the solons of high-concept art aren't exactly clamoring for representational landscapes, regardless of how well crafted they are. So what's his attraction to the genre? Many artists embrace representational art because they're angry at being cultural outsiders. Others resort to realism because they can't think of any other way to paint.

But for Anderson, realism defines his authentic voice. "For a lot of plein-air and representational painters, realism is the goal," he explains, "but for me realism is a means to the goal. I guess you could say that realism is the language I use to make art." This subtle distinction is an important one. Monet, for example, wasn't trying to do paintings of lily pads that looked impressionistic; rather, impressionism was his artistic language, and he chose subjects that best gave voice to that language.

In the same way, realism is the most apparent attribute of Anderson's artistic language, but it's not the objective. If representational accuracy had been his goal for the bridge series, he could have spared himself the trouble and taken photographs (the kind with genuine artistic aspirations).

Anderson's I-35 bridge paintings afford one of those rare instances in which the art behind the painting is clearly visible. Perhaps best of all, Anderson's paintings can be enjoyed without worry that a statement lurks in ambush. The artist actually means it when he says, "The bridge paintings are not my homage to architecture—or anything else." **AMN**



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Roaring Back

<< continued from page 33

plasterwork (an enormous expense), and the concourse and the adjacent "Living Room" are decked out in Barbarella-style chrome grillwork, Pleather-upholstered seating, light fixtures dripping with oversize glass beads, and an abundance of mirrors. The two reception desks each resemble a giant, beveled-glass perfume bottle that glows. The whole reception area is bathed in mood-setting dim fuchsia light.

The Foshay's transformation is less a My Fair Lady story than it is a Lady Godiva tale of youth, beauty, and voyeurism, with the designers exploring the largely untapped preservation themes of historical eroticism and indulgence. It feels like something illicit could be going on just out of sight.

The first floor could easily pass for the latest hot club, thanks in part to the elegant new digs for Manny's Steakhouse on the corner of Ninth and Marquette. The project also managed to squeeze into the modest two-story base a more conventional roster of hotel amenities: A suite of meeting rooms and a banquet hall (the largest with natural light in the city) fill the second floor, while a fitness center called SWEAT is tucked into the third story (the first of the tower). The Living Room, on the ground level, has its own full-service bar, but the real treat is 27 floors up, where Wilbur Foshay's original residence and offices have been converted into a high-powered bar, dubbed Prohibition. The original mahogany paneling and wrought-iron railings have been fluffed and buffed, with lounge seating inserted into the many nooks and crannies. The showstopper? A wall-to-wall white Naugahyde bed that can accommodate a half-dozen cozy friends.

ESG's biggest challenge—and least heralded success—was fitting 230 rooms into the building shell while meeting modern-day building codes and hotel-operations standards. Every level required customized plans, because each floor in the tapered tower is slightly smaller than the one below it. The lowest level, for example, contains 10 rooms, but the top story has only two. Ceiling heights, too, shrink on each ascending floor, complicating the layout of ductwork and plumbing systems.

In addition, ESG needed to insert a second stair tower for emergency exiting, all without losing

>> continued on page 59

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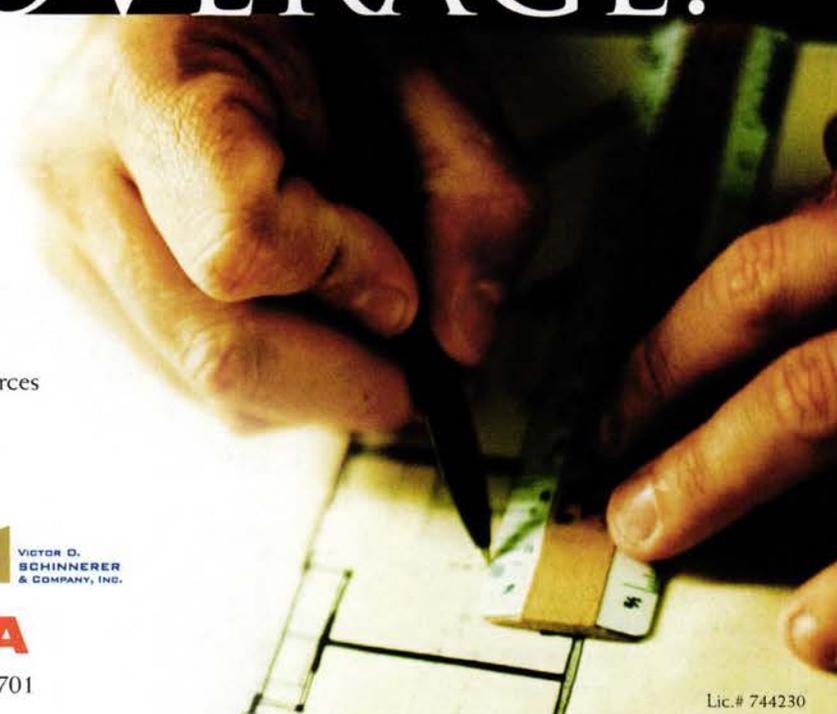
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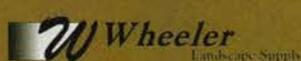
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Roaring Back

<< continued from page 57

elevator space or adding on to the building. Oftentimes the most hard-won preservation successes end up escaping notice.

And yes, the observation deck is open, along with a small museum that highlights the history of the building and the skyscraping city that grew up around it. Admission is more than the 25 cents Ralph Burnet paid 50 years ago, but the telescopes mounted at each corner of the building still work—and they're free!

In an ironic twist, Wilbur Foshay never moved into the building that bears his name; he was hauled off to Leavenworth for mail fraud just six weeks after the building was completed. It's also ironic that a building born of a decadent age had to wait the better part of a century for its heyday. The Foshay has never looked better. Let the party begin. **AMN**

Temple of Luxury

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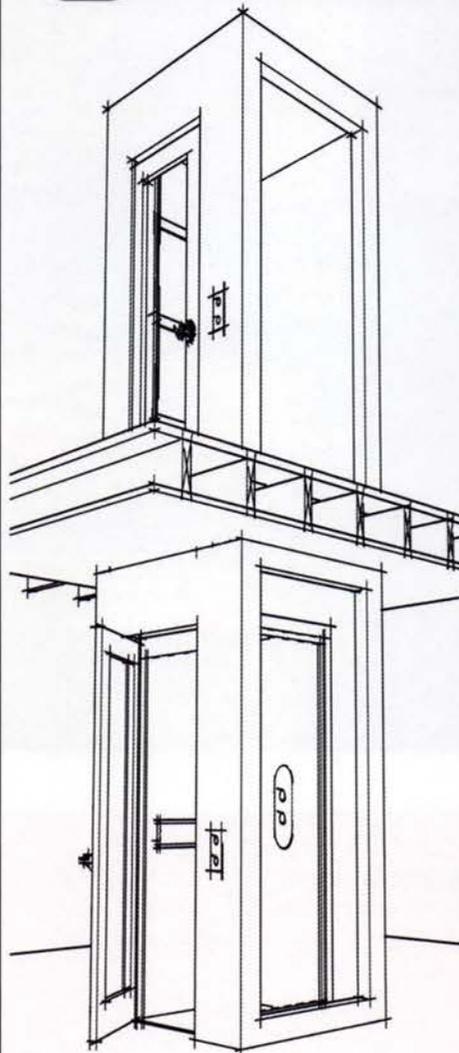
tower, requiring Walsh Bishop to reconfigure room sizes with each change. "It was a constantly evolving, giant jigsaw puzzle," Goetz says. In the end, the condo tower totaled 92 units, including 18 studio apartments considered affordable by the City of Minneapolis.

The exteriors of the hotel and condo towers feature limestone, glass, and metal at the base, but only the hotel tower becomes translucent glass at the top. While Goetz admits that he initially found the proposed development "a lot of building next to the old Ivy," he adds: "There were certain levels of financial return that the developer needed in order to offset the risk of this development."

"Nonetheless, the Ivy Tower was given a leading role in the development, and all efforts were made to maintain its historic importance," Goetz concludes. That the Ivy lives, albeit in a new iteration embraced by commercial luxury rather than religious devotion, is enough for preservationists and those who have long appreciated the tower's idiosyncrasies from afar. **AMN**

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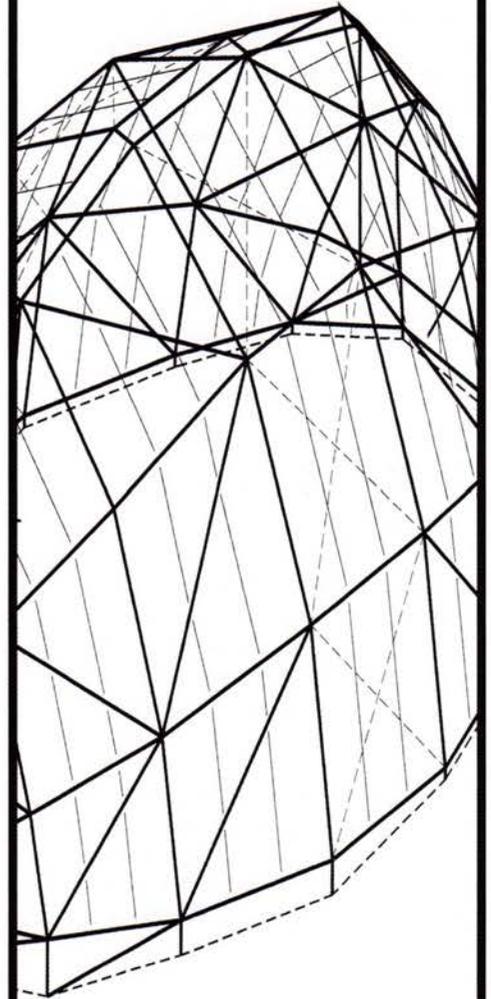
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The Art of Fitting In

<< continued from page 40

"all about lake views and natural light."

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Working with a relatively tight budget, ESG managed to achieve both consistency and character in the new Sheraton. In a city that boasts the Lift Bridge, Park Point, and the Romanesque Duluth Central High School, among other landmarks, the Sheraton is a background building. It doesn't aim for stardom; rather, it seeks to fit in well, today and over time. Comfortable modesty and respect for a city's urban character never go out of style. **AMN**

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College of Connections

<< continued from page 48

It's amazing how many collaborative projects start out as discussions around the water cooler." Both the dean and associate dean agree. Solomonson laments the fact that McNeal Hall offers less public space for the display of student work. Fisher says physical proximity is the ultimate goal, but he suggests that the slower merger of the departments might ensure a stronger college in the long run, because it allows for relationships to develop in their own way. "I have found that, in communities, slower change can be better because it happens more organically," he says.

So what's being done to bridge the gap? For starters, the university has identified the Bell Museum—a stone's throw from Rapson—as a second building for the college once the museum moves to a new site. (The bad news: Funding for a new Bell is partially dependent on action at the state legislature.) How the various departments would occupy the two buildings has not yet been determined. In the meantime, suggests graphic-design professor McCarthy, a swap might be in order, in which the departments "populate each others' spaces." Fisher, for one, has offices on both campuses.

Despite the distance, the cross-pollination of departments is already well under way, and, judging by the student's more holistic and altruistic approach to design, it will only increase. At the heart of the College of Design is the fundamental idea that design—whether for clothing, interiors, graphics, landscapes, buildings, or products—can make a difference. And make a difference not just for the few that can afford it, but for everyone, and without harming the earth. "Our students," says Fisher, summing up the sentiments of Helle and the others, "feel they have a responsibility to the more than six billion people on the planet, as well as to the planet itself."

But all is not leafy green in the real world, and the students recognize that, too. "I've been a little disappointed that designers have to talk about sustainability as a goal," says architecture student John Steingraeber. He knows that care for the environment and those who live in it should be inherent in good design—but often isn't. He offers a statement that could easily serve as a mantra for the new design thinking, or a slogan for the college: "Form is part of performance." **AMN**

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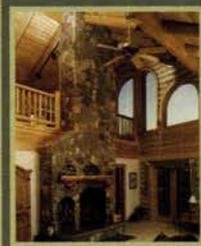
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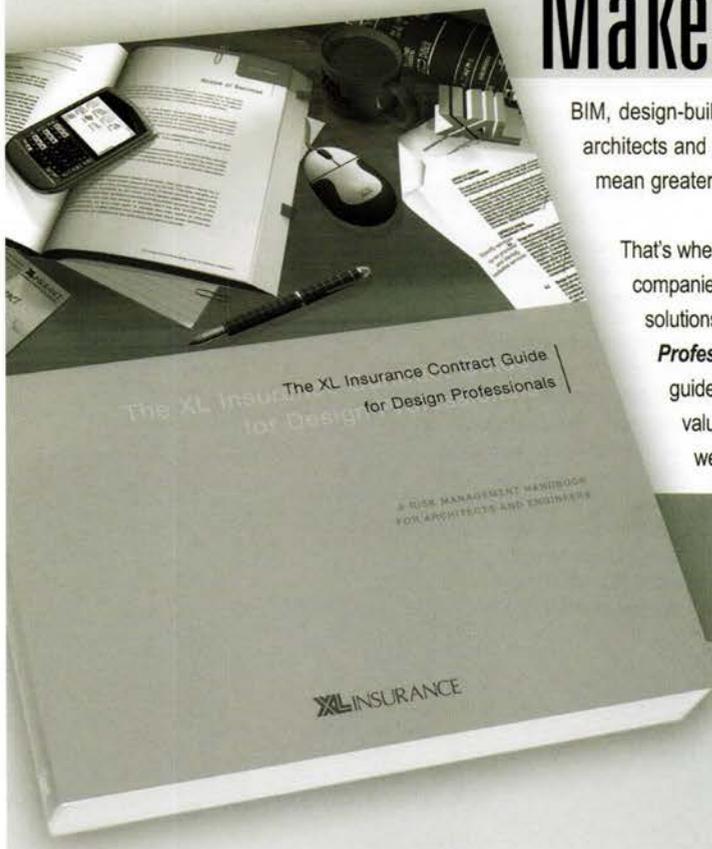


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Engineers provide those critical design skills that enable our entire built environment to be structurally safe, comfortably warm and well lit, and environmentally friendly. They also design our highways and bridges, water treatment facilities, and power generation plants.

In Minnesota, you will find there is a wealth of engineering talent available for your next project. Study this directory and call either the American Council of Engineering Companies of Minnesota (ACEC) at (952) 593-5533 or the American Institute of Architects Minnesota (AIA Minnesota) at (612) 338-6763 for additional information and assistance.

LEGEND

- PE Professional Engineer
- PG Professional Geologist
- AIA American Institute of Architects (Registered)
- AICP American Institute of Certified Planners
- CCM Certified Construction Manager
- CID Certified Interior Designer
- CIH Certified Industrial Hygienist
- CxA Certified Commissioning Authority
- ASLA American Society of Landscape Architects
- PLS Professional Land Surveyor (registered)
- RA Registered Architect
- RCDD Registered Communications Distribution Designer
- RLS Registered Land Surveyor
- LS Land Surveyor (registered)
- SE Structural Engineer

ALBERTSON ENGINEERING INC.

2198 Goodrich Avenue
St. Paul, MN 55105
Tel: (651) 699-5083
Fax: (651) 699-5084
Email: shane@albertson-engineering.com
www.albertson-engineering.com
Established 1998

Firm Principal

J. Shane Albertson, PE, LEED AP

Mechanical consulting engineering for HVAC, plumbing, fire protection, process piping, refrigeration piping, temperature controls, energy management and HVAC system commissioning for commercial, industrial, medical, educational and municipal projects.

Washington County Environmental Center, Woodbury, MN; Symphony Place Chiller Upgrade, Minneapolis, MN; Columbia Heights Municipal Liquor Stores, Columbia Heights, MN; Waconia Public Works Facility, Waconia, MN; Edina Fire Station No. 1, Edina, MN; St. Cloud State University Public Safety Center and Ramp, St. Cloud, MN

**AMERICAN ENGINEERING
TESTING, INC.**

550 Cleveland Avenue North
St. Paul, MN 55114
Tel: (651) 659-9001
Fax: (651) 659-1379
Email: aet@amengtest.com
www.amengtest.com
Year Established 1971
Other MN Offices: Chanhassen, Crosby, Duluth, International Falls, Mankato, Marshall, Rochester, Rogers
Total in MN Offices: 225
Other Offices: Bonita Springs and Palatka, FL; Baton Rouge, La; Beresford, Pierre and Rapid City, SD; Eau Claire, Hudson, Menomonie and Schofield, WI
Total in All Offices: 275
Contact: Bob Struve, PE (651) 659-1342

Firm Principals

Terrance Swor, PG
Richard Stehly, PE
Daniel Larson, PE
Jeffrey Voyer, PE
Michael Schmidt, PE
Thomas Venema, PE
Robert Kaiser

continued next column

AET is an employee-owned corporation founded in 1971 providing environmental, geotechnical, materials and forensic consulting and laboratory services. AET engineers, geologists, scientists and certified technicians analyze, monitor and test in order to document and improve the design and construction process.

MN Twins Ballpark, Minneapolis, MN; Highway 212, Chaska, MN; Ivy Tower, Minneapolis, MN; Marketpointe, Bloomington, MN; Owatonna Hospital, Owatonna, MN; UMD Civil Engineering Building, Duluth, MN

**ATS&R PLANNERS/
ARCHITECTS/ENGINEERS**

8501 Golden Valley Road, Suite 300
Minneapolis, MN 55427
Tel: (763) 545-3731
Fax: (763) 525-3289
Email: information@atsr.com
www.atsr.com
Established 1944
Total in MN Office: 90
Contact: Paul W. Erickson, AIA (763) 545-3731

Firm Principals

Paul W. Erickson, AIA
James T. Lange, PE
Gaylen D. Melby, PE
Terry L. Stofferahn, PE

ATS&R is a multi-disciplined architectural/engineering firm providing mechanical and electrical engineering for educational facilities, churches and public buildings. Other service include civil engineering for site design and storm water management as well as technical design for video, voice, data and security systems. Specialized designs for energy conservation measures include passive solar, heat recovery systems, thermal storage (ice), variable air volume, displacement ventilation and energy management systems.

Minnetonka School District, Minnetonka Middle School East (pool additions/renovations), MN; Rochester School District, John Marshall High School (additions/alterations), MN; Anoka-Hennepin School District (data center cooling replacement), MN; Minnetonka School District (centralized computer testing labs), MN; Minneapolis School District (security camera installations), MN; Anoka-Ramsey Community College (addition), MN

BKBM ENGINEERS, INC.

5930 Brooklyn Boulevard
Bloomington, MN 55437
Tel: (763) 843-0420
Fax: (763) 843-0421
Email: bkbm@bkbm.com
www.bkbm.com
Established 1967
Total in MN Office: 39
Contact: Ronald J. LaMere/Thomas J. Downs, (763) 843-0420

Firm Principals

Thomas J. Downs, PE
Ronald J. LaMere, PE
Andrew M. Rauch, PE
John B. Thiesse, PE
Thomas J. Cesare, PE
Roger L. Oberg

BKBM Engineers is a multi-discipline, professional engineering firm committed to excellence in design, on-schedule project completion and exceeding customer expectations. Our expertise includes structural, civil, restoration, and industrial engineering design services. We also provide investigations for historic structures and buildings, parking garages and ramps.

Great River Energy, Maple Grove, MN; Macalester College (athletic facility), St. Paul, MN; Bet Shalom Synagogue, Minnetonka, MN; Applewood Pointe of Woodbury, Woodbury, MN; Interstate North, Brooklyn Park, MN

BONESTROO

2335 West Highway 3
St. Paul, MN 55113
Tel: (651) 636-4600
Fax: (651) 636-1311
Email: info@bonestroo.com
www.bonestroo.com

Established 1956

Other MN Offices: St. Cloud, Rochester
Other Offices: Milwaukee, Libertyville (IL)
Contact: Tom Madigan, (651) 636-4600

Firm Principals

Tom Madigan, PE
Jeff McDowell, RLA
Greg Stroeing, RLS
John Shardlow, AICP
Karen Erickson, PE
Phil Caswell, PE

Bonestroo provides innovative, practical engineering and planning solutions that stand the test of time. Founded in 1956, our multi-disciplined staff includes engineers in the following disciplines: civil, structural, mechanical, electrical, traffic and transportation, water and wastewater treatment, environmental. Also landscape architects, water and natural resources scientists and engineers, planners and funding specialists; GIS specialists, recreation engineers and construction services specialists. Offices are located in St. Paul, Rochester, and St. Cloud, MN

Water Treatment Plant (expansion), Wayzata, MN; University of Minnesota TCF Bank Stadium (stormwater pond), Minneapolis, MN; Spruce Street Road (bridge streetscape and utility improvements), Farmington, MN; Northwestern College and Radio (parking ramp and road improvements), Roseville/Arden Hills, MN; TH 61 at Jamaica Avenue (multi-lane six-legged roundabout), Cottage Grove, MN; Metro Transit (Starlite Transit Center), Lakeville, MN

BRAUN INTERTEC CORPORATION

11001 Hampshire Avenue South
Minneapolis, MN 55438
Tel: (952) 995-2000
Fax: (952) 995-2020
Email: info@braunintertec.com
www.braunintertec.com

Established 1957

Other in MN Offices: St. Paul, St. Cloud, Lakeville, Rochester, Hibbing, Albertville
Total in MN: 378
Other Offices: Fargo, Bismarck, La Crosse
Total in Other Offices: 43
Contact: Liz Wortman (952) 995-2070

Firm Principals

George D. Kluempke, PE
Robert J. Janssen, PE
Charles R. Brenner, PE
Jon A. Carlson, PG
Michael M. Heuer, PE
Steven J. Flaten, AIA

Serving as an engineering, consulting and testing firm providing solutions for property development, re-development, facilities management and infrastructure-related issues. Provides services during each stage of development from the pre-project geo-technical and environmental evaluations through materials evaluation during construction and property management issues. Provides services nationally and internationally.

The West End, St. Louis Park, MN; Bridgewater Lofts, Minneapolis, MN; Langdon Wind Energy Center, Nekoma, ND; Great River Energy Headquarters, Maple Grove, MN; I-35 Bridge, Minneapolis, MN; Minnesota Twins Ballpark, Minneapolis, MN

BURNS & MCDONNELL ENGINEERS-CONSULTANTS

8201 Norman Center Drive
Bloomington, MN 55437
Tel: (952) 656-6003
Fax: (952) 229-2923
Email: gsieve@burnsmcd.com
www.burnsmcd.com

Established 1898

Other MN Office: Worthington
Total in MN Offices: 13
Other Offices: Kansas City, Chicago, Houston, St. Louis, Denver, Phoenix, San Francisco, San Diego, Atlanta, New York, Washington D.C.
Total in Other Offices: 2900
Contact: Gene Sieve, PE, LEED AP
(952) 656-6003 x3636

continued next column

Firm Principals

Gene Sieve, PE, LEED AP
Tony Schoenecker, PE, FPE, LEED AP
Dana Fontaine, CxA, LEED AP
Bob Heiler, PE
Perry Ryan, PE

Founded in 1898, Burns & McDonnell is a full-service engineering, architecture, construction, environmental and consulting solutions firm. The company's multi-disciplined staff of more than 2,800 includes engineers, architects, construction professionals, planners, estimators, economists, technicians and scientists, representing virtually all design disciplines. Burns & McDonnell plans, designs, permits, constructs and manages facilities all over the world with one mission in mind—to make our clients successful. Expertise in municipal services, power generation, process design, program management, security, transportation infrastructure.

Minnesota Army National Guard (field maintenance shop), Mankato, MN; Warren E. Burger Federal Building (commissioning), St. Paul, MN; Xcel Energy (Southwest Minnesota wind transmission upgrade); Thermal Energy Corp (TECO) Central Utility Plant, Houston, MN; NOVA Far Detector Building (University of Minnesota Heart of Doha, Diwan Amiri Quarter), Doha, Qatar

CAIN OUSE ASSOCIATES, INC.

1310 East Highway 96
White Bear Lake, MN 55110
Tel: (651) 426-9549
Fax: (651) 426-5048
Email: jcain@cainouise.com
www.cainouse.com

Established 1983

Total in MN Office: 12
Contact: Jay J. Cain, PE (651) 426-9549

Firm Principals

Jay J. Cain, PE
Wallace M. Ouse, PE
Scott D. Thomas, PE
Allan Theisen, PE

Mechanical and electrical engineering for all types of facilities. Project types include churches, schools, public works, healthcare, retail and housing. Specialties include lighting design, ground source heat pumps and public works special systems. Clients include architects, engineers and institutional owners such as the University of Minnesota and entertainment complexes such as Mille Lacs Casino and government entities.

continued next column

Sholom Home East, St. Paul, MN; Jackpot Junction Expansion, Morton, MN; St. Anthony Mills Apartments, Minneapolis, MN; Calvin Christian School Expansion, Edina, MN; Lake Ann Athletic Field Lighting, Chanhassen, MN; Peter Christianson Health Care Center, Lac du Flambeau, WI

CLARK ENGINEERING CORP.

621 Lilac Drive North
Minneapolis, MN 55422
Tel: (763) 545-9196
Fax: (763) 541-0056
Email: info@clark-eng.com
www.clark-eng.com

Established: 1938

Total in MN Office: 36
Other Offices: Aberdeen, Sioux Falls
Total in Other Offices: 24
Contact: Alan Duff (763) 545-9196

Firm Principals

Cory Casperson, PE
Tim LaBissoniere, PE
Hadi Sajadi, PE
Abi Assadi, PE
Don Weigel, PE
Kevin Goff, PE

Clark Engineering Corporation provides structural engineering, civil engineering and land surveying services for commercial, educational, industrial, hospitality and public sectors, for new and existing facilities throughout the world. Clark also offers a wide range of specialty services including emergency response, 3D laser scanning, restoration, sustainable design, and vibration and blast-resistant structures. Civil engineering offers site development and storm water management.

8200 Tower and Parking Ramp, Bloomington, MN; Jumer's Casino and Hotel, Rock Island, IL; Minnetonka Schools (additions/remodels), Minnetonka, MN; Grand River Station (transit/mixed-use center), La Crosse, WI; Stillwater Parking Ramp (site design), Stillwater, MN; House of Hope Church (restoration study), St. Paul, MN

DARG BOLGREAN MENK, INC.

7575 Golden Valley Road, Suite 210
Golden Valley, MN 55427
Tel: (763) 544-8456
Fax: (763) 544-8914
Email: info@dbm-inc.com
www.dbm-inc.com
Established 1966
Total in MN Office: 7
Contact: Harry D. Menk (763) 544-8456

Firm Principals

Gene Bolgrean, PE
Harry D. Menk, PE

Complete structural engineering services for commercial/retail, office/warehouse, academic, industrial, governmental, medical/health, housing, religious and parking facilities. With expertise in steel, concrete, masonry and wood, DBM has engineered new construction, additions and renovations/restorations on over 5,000 projects in 21 states.

Blaine Public Works, Blaine, MN; Kanabec Hospital (addition), Mora, MN; Classic at the Preserve, Woodbury, MN; York Place East, Edina, MN; Washington County Environmental Center, Woodbury, MN; Martin Luther Care Center, Bloomington, MN

DATA CORE ENGINEERING, INC.

1700 West Highway 36
700 Rosedale Towers
Roseville, MN 55113
Tel: (651) 604-3200
Fax: (651) 639-9618
Email: info@dcedesign.com
www.datacoreeng.com
Established 1991
Total in MN Office: 7
Contact: John St. Pierre, RCDD/NTS
(651) 604-3218

Firm Principals

James W. Giefer, PE
D. Lane Hersey, PE

continued next column

Data Core is a technology-consulting firm. We provide technology planning and design services to architects and engineers for the integration of voice, data, audio/visual, security and other telecommunications systems for both new construction and renovation projects.

University of Minnesota Duluth Labovitz School of Business and Economics (LEED Gold Certified Project), Duluth, MN; St. Paul Public Schools Washington Technology Magnet School (addition/remodel), St. Paul, MN; Santa Barbara City College, Santa Barbara, CA; Allan Hancock College, (new library lobby revisions), Santa Maria, CA; U.S. Army Corps of Engineers, Fort Shafter, HI; U.S. Army Reserve (training centers and maintenance facilities), Nationwide

DOLEJS ASSOCIATES INC.

1624 North Riverfront Drive
Mankato, MN 56001
Tel: (507) 625-7869
Fax: (507) 388-9225
Email: mdolejs@dolejsinc.com
Established 1977
Other MN Office: Lakeville
Contact: Mike Dolejs, PE (507) 625-7869

Firm Principals

Michael Dolejs, PE, LEED AP
Christopher Dolejs, PE

Dolejs Associates provides mechanical and electrical design services for the building industry. Building types include educational, recreational, churches, engineered housing, hotels, restaurants and public works. An experienced and stable staff provides expertise in HVAC, plumbing, fire protection, temperature control, lighting, power, communication and life safety systems.

MnDOT Regional Headquarters, Mankato, MN; Chatfield Elementary School, Chatfield, MN; Hosanna Lutheran Church, Lakeville, MN; Lutherhaven Nursing Home (HVAC upgrades), Montevideo, MN; Faribault Public Works Building, Faribault, MN; Village Cooperative Senior Housing Complex, Mason City, IA

DUNHAM ASSOCIATES, INC.

50 South Sixth Street, Suite 1100
Minneapolis, MN 55402-1540
Tel: (612) 465-7550
Fax: (612) 465-7551
Email: info@dunhameng.com
www.dunhameng.com
Established 1960
Other MN Office: Duluth
Total in MN Office: 93
Contact: Kathleen Kolbeck, PE, LEED AP,
(612) 465-7550

Firm Principals

Kathleen Kolbeck, PE, LEED AP
Jay Rohkohl, PE, LEED AP
Steve Gentilini, PE, LEED AP
Dale Holland, PE, LEED AP
Ron Feldhaus, PE, LEED AP

Dunham is a mechanical and electrical consulting engineering firm specializing in commercial office buildings. Our major practice areas of discipline are aviation, commercial, education, healthcare, hospitality and retail. We have teams of specialists in commissioning, telecommunications, indoor air quality, sustainable design and LEED certification. Our unique IAQ expertise includes thermal displacement ventilation and computational fluid dynamics (CFD) modeling.

Great River Energy, Maple Grove, MN; Alliant Techsystems Corporate Headquarters, Eden Prairie, MN; Methodist Hospital (Heart & Vascular Center), St. Louis Park, MN; MCTC/MSU Health Sciences (renovation), Minneapolis, MN; Fairview Ridges (Millennium Project), Burnsville, MN; Riverside Casino & Golf Resort, Riverside, IA

ELLERBE BECKET, INC.

800 LaSalle Avenue
Minneapolis, MN 55402
Tel: (612) 376-2000
Fax: (612) 376-2271
Email: info@ellerbebeck.com
www.ellerbebeck.com
Established 1909
Total in MN Office: 239
Other Offices: Dallas, Kansas City (MO), San Francisco, Washington D.C., Doha, Qatar; Dubai, UAE
Total in Other Offices: 227
Contact: Dan Dickenson, PE (612) 376-2000

continued next column

Firm Principals

Jon Buggy, AIA
Steve Wernersbach, PE
Dan Dickenson, PE, LEED AP
Prem Khera, PE
Kimberly Pierson, PE, LEED AP
Jon Iverson, PE

Ellerbe Becket's engineering team has a proven history of success in the execution of technically complex projects; these include new construction, renovation and building systems retrofit. The team offers experience in a wide range of facility types, including hospitals and clinics, mission critical facilities, laboratories, workplace environments, learning environments and heating/cooling plants.

Austin Energy (new energy control center), Austin, TX; Dow Chemical (2030 building renovation/expansion), Midland, MI; Gunderson Lutheran Health System (multiple projects), La Crosse, WI; NRG Energy (multiple projects), Minneapolis, MN; Sanford USD Medical Center (multiple projects), Sioux Falls, SD; University of California, Rady School of Management (Phase 2), La Jolla, CA

EMANUELSON-PODAS INC.

10401 Bren Road East
Minnetonka, MN 55343
Tel: (952) 930-0050
Fax: (952) 930-0777
Email: svanderheiden@epinc.net
Established 1957
Total in MN Office: 32
Contact: Scott Vander Heiden,
(952) 930-0050

Firm Principals

Michael Webert, PE
Matthew Fults, PE
Scott Vander Heiden, PE

Emanuelson-Podas is a full-service, mechanical and electrical engineering firm, offering a wide spectrum of solutions to fit our clients' individual goals. Our staff has diverse experience across a range of building projects including healthcare, correctional, government, educational, fitness, casinos, financial aid and religious facilities. Services include HVAC, plumbing, power, lighting, communications and sustainable design, as well as commissioning.

Lifetime Fitness Corporate Center, Chanhassen, MN; Lifetime Fitness Club and Tennis Facility, Lakeville, MN; Dakota Sport and Fitness Ice Arena, Prior Lake, MN; Park Midway Bank, St. Paul, MN; Evangelical Covenant Church, North Mankato, MN; Dakota Sioux Casino, Watertown, SD

**EMMONS & OLIVIER,
RESOURCES, INC. (EOR)**

651 Hale Avenue North
Oakdale, MN 55128
Tel: (651) 770-8448
Fax: (651) 770-2552
Email: info@eorinc.com
www.eorinc.com
Established 1997
Other MN Office: Park Rapids
Total in MN: 43

Firm Principals

Brett Emmons, PE
Cecilio Olivier, PE

Emmons & Olivier Resources, Inc. (EOR) is a mid-sized, employee-owned, multi-disciplinary environmental engineering and consulting firm that specializes in the fields of civil engineering, landscape architecture, watershed and water resources planning, ecosystem restoration, conservation, and monitoring. We work with government agencies, municipalities, non-profit organizations, and private landholders to develop innovative, creative, and economic solutions that respect the environment.

Bruce Vento Nature Sanctuary (ecological restoration plan), St. Paul, MN; Como 7 Sub-watershed (flood prevention and water quality improvements), St. Paul, MN; Amery Regional Medical Center (sustainable site design), Amery, WI; Bradshaw Center (BMP implementation and infiltration design), Stillwater, MN; Minnehaha Creek (hydrologic/hydraulic and pollutant load modeling), Minnehaha Watershed, MN; Rice Creek Meander (stream restoration and stabilization), Rice Creek Watershed, MN

**ENGINEERING DESIGN
INITIATIVE**

1112 North Fifth Street
Minneapolis, MN 55411
Tel: (612) 343-5965
Fax: (612) 343-5982
Email: jhruby@edilimited.com
Established 2002
Total in MN Office: 21
Contact: Jay Hruby (612) 343-5965

Firm Principals

Jay Hruby, PE
Larry Svitak, PE

continued next column

EDI provides innovative M/E engineering solutions for a variety of building types. Our services include M/E engineering, building commissioning, energy modeling and daylight modeling services. EDI is committed to delivering designs that are energy efficient, maintainable and sustainable. We are passionate in our creative design, attention to detail and commitment to teamwork - from defining initial performance goals through validation by commissioning.

St. John's Abbey Guesthouse and Chapter House, Collegeville, MN; Wright County Law Enforcement Center, Buffalo, MN; St. Cloud Public Library, St. Cloud, MN; SPPS Central High School Technology Upgrade, St. Paul, MN; City of Minneapolis Water Works Maintenance Facility, Fridley, MN; Blue Earth County Law Enforcement Center, Mankato, MN

**ERICKSEN ELLISON AND
ASSOCIATES**

305 2nd Street NW, Suite 105
New Brighton, MN 55112
Tel: (651) 632-2300
Fax: (651) 632-2397
Email: tpeterson@eeaengineers.com
www.eeaengineers.com
Established 1954
Total in MN Office: 23
Contact: Todd Peterson, (651) 632-2320

Firm Principals

Todd A. Peterson, PE
Jim Art, PE
Bill Thiesse, PE
Terri A. Fleischhacker

EEA is a mechanical/electrical engineering company with extensive experience in design and commissioning of - Public Projects: judicial/correctional, libraries, government, and maintenance. Commercial: medical facilities, data centers, and retail. Education: recreation centers, libraries, laboratories, dormitories, and campus centers; EEA has LEED certified engineers specializing in system modeling and innovative approaches for reducing energy consumption without sacrificing utility or comfort.

Minneapolis Central Library (design/ commissioning), Minneapolis, MN; Grinnell College New Campus Center (design and LEED certification review), Grinnell, IA; MCF Faribault Campus (energy infrastructure/ renovation/new buildings), Faribault, MN; Unisys NAEC Data Center (design/ commissioning), Eagan, MN; Macalester College (athletic/recreation center), St. Paul, MN; Bethel University Commons, Arden Hills, MN

**ERICKSEN, ROED AND
ASSOCIATES, INC.**

2550 University Avenue West, Suite 2015
St. Paul, MN 55114
Tel: (651) 251-7570
Fax: (651) 251-7578
Email: info@ericksenroed.com
www.ericksenroed.com
Established: February, 1985
Total in MN Office: 55
Other Office: Eau Claire, WI
Total in Other Offices: 7
Contact: Bud Ericksen or Colleen Berg
(651) 251-7570

Firm Principals

Alfred (Bud) Ericksen, PE
Michael A. DeSutter, PE
James D. Roed, PE
William T. Buller, PE, SE
Robert A. Curtis, PE
Robert J. Quinn, PE
Michael S. Steenson, PE

Full service structural engineers that deliver to our clients' innovative, economical solutions. Our range of markets include retail, commercial, medical, energy, multi-family, hospitality, arts and educational, sports/recreational/ entertainment, high-rise, remodeling and renovation projects. Registered throughout the United States, utilizing Revit/BIM and developers of the (patented) ER-Post precast building system.

Guthrie Theater and Parking Ramp, Minneapolis, MN; TCF Stadium, University of Minnesota, Minneapolis, MN; Turtle Creek Hotel/Casino, Traverse City, MI; Target Stores, Nationwide; Lifetime Fitness Facilities, North America; Westin Galleria Hotel/Condominium Complex, Edina, MN

FOSTER, JACOBS & JOHNSON, INC.

345 Canal Park Drive, Suite 200
Duluth, MN 55802
Tel: (218) 722-3060
Fax: (218) 722-1931
Email: mail@fjj.com
www.fjj.com
Established 1922
Total in MN Office: 14
Contact: Jim Johnson, (218) 722-3060

Firm Principals

James R. Johnson, PE
Charles F. Jacobs, PE

Full-service mechanical and electrical consulting services, including design and preparation of contract documents for fire protection, plumbing, HVAC, controls, lighting, power distribution, communications and life safety systems and construction administration.

Ely-Bloomenson Hospital (renovation), Ely, MN; Fortune Bay Resort Casino (expansion), Tower, MN; Grant Elementary School (miscellaneous improvements and addition), Duluth, MN; Minnesota Air National Guard (composite aircraft maintenance complex), Duluth, MN; Sheraton Hotel and Condos, Duluth, MN; University of Minnesota Duluth Sports and Health Center (expansion), Duluth, MN

**FUTRELL FIRE CONSULT &
DESIGN, INC.**

8860 Jefferson Highway
Osseo, MN 55369-1500
Tel: (763) 425-1001
Fax: (763) 425-2234
Email: scottf@ffcdi.com
www.ffcdi.com
Established 1989
Total in MN Office: 6
Total in Other Offices: 6

Firm Principals

Scott A. Futrell PE (WI), FSFPE

Fire protection engineering, fire alarm and suppression system design, risk analysis, plan and engineering report reviews, special instructions, commissioning, expert witness, third-party review and project management.

3M Company, Various Locations Nationwide; University of Minnesota Science Teaching Center (STSS), Minneapolis, MN; Minnesota Veterans Home Buildings 15 (Warehouse) and 18 (Chapel), Minneapolis, MN; Sitzmann Hall, University of St. Thomas, St. Paul, MN; Farmington High School, Farmington, MN; SAO Surplus Services, Arden Hills, MN

**GAUSMAN & MOORE
ASSOCIATES, INC.**

1700 West Highway 36
700 Rosedale Towers
Roseville, MN 55113
Tel: (651) 639-9606
Fax: (651) 639-9618
Email: gmmail@gausman.com
www.gausman.com
Established 1935
Other MN Offices: Duluth
Total in MN Offices: 59
Other Offices: Portland, Los Angeles
Total in Other Offices: 26
Contact: Mark Leutgeb, Bus. Dev.
(651) 604-3141

Firm Principals

James W. Giefer, PE
James A. Keller, PE, LEED AP
D. Lane Hersey, PE
Robert B. Full, PE
Dave T. Blume, PE, LEED AP
Edward L. Studniski, PE
James D. Manning, PE

Gausman & Moore provides mechanical, electrical, fire protection, and technology support services. Areas of special expertise include sustainable design (LEED® AP), mission critical power systems, forensic investigations, lighting design, and health care.

University of Minnesota Duluth Labovitz School of Business and Economics (LEED gold Certified project), Duluth, MN; Santa Barbara Community College School of Media Arts, Santa Barbara, CA; Bethany Lutheran Academic Administration Building, Mankato, MN; Madame Tussauds, Hollywood, CA; Grand View Hospital, Ironwood, MI; U.S. Army Reserve Training Centers and Maintenance Facilities, Nationwide; Retail Roll-out Programs, Nationwide

HALLBERG ENGINEERING, INC.

1750 Commerce Court
White Bear Lake, MN 55110
Tel: (651) 748-1100
Fax: (651) 748-9370
Email: hei@hallbergengineering.com
www.hallbergengineering.com
Established 1979
Total in MN Office: 40
Contact: Gina Halter (651) 748-1100

Firm Principals

Joseph Hallberg, PE
Richard Lucio, PE, LEED AP
Stuart Rauvola, PE
Paul Fettingter, PE

Hallberg Engineering, Inc. (HEI) is a mechanical and electrical consulting engineering firm. We specialize in the design of mechanical, electrical, and technology systems, along with building analysis and commissioning. Our services also include system upgrades and retrofits to improve indoor air quality and energy conservation. We are dedicated to fulfilling our clients' needs for mechanical and electrical engineering solutions for buildings that work.

REI (LEED project), Chicago, IL; Nelson Builders Corporate Office Building (LEED), New East Ridge High School; New Chanhassen High School, Chanhassen, MN; Minnesota Sex Offenders Program (MSOP); United Health Group Corporate Office (LEED Commissioning).

**HAMMEL, GREEN AND
ABRAHAMSON, INC. (HGA)**

701 Washington Avenue North
Minneapolis, MN 55401
Tel: (612) 758-4000
Fax: (612) 758-4199
Email: info@hga.com
www.hga.com
Established 1953
Other MN Office: Rochester
Total in MN Offices: 318
Other Offices: Milwaukee, Sacramento, Los Angeles, San Francisco
Total in Other Offices: 218
Contact: Julie Luers, Dir. Mktg.
(612) 758-8600

Firm Principals

Chuck Cappellin, PE, LEED AP
Jeff Harris, PE, LEED AP
Leigh Harrison, PE, LEED AP
Kenny Horns, PE, LEED AP
Doug Maust, PE, LEED AP
Yan Shagalov, PE

continued next column

HGA has engineering expertise in the design of a broad range of facility types. In addition to traditional civil, mechanical, structural and electrical engineering, HGA has specialists in commissioning, clean environments, industrial processes, central plants, utility infrastructure, existing condition surveys, facility assessments, telecommunications systems design, healthcare technology applications design, structural special inspections, and specialty lighting. HGA engineers serve both prime consultants and sub-consultants.

Minnesota Biobusiness Development Center, Rochester, MN; Minnesota State University, Trafton Science Center, Mankato, MN; Minnesota Twins Ballpark (civil sie and utility work), Minneapolis, MN; SurModics, Eden Prairie, MN; University of Minnesota, Children's Hospital/Fairview, Riverside Campus, Minneapolis, MN; University of Minnesota-Morris (biomass boiler), Morris, MN

HEYER ENGINEERING

123 3rd Street North, Suite 600
Minneapolis, MN 55401
Tel: (612) 238-3805
Fax: (612) 238-3806
Email: dave@heyere-eng.com
www.heyereengineering.com
Established 1983
Total in MN Office: 5
Other Office: Fargo
Total in Other Office: 20
Contact: Dave Bruns (612) 238-3805

Firm Principals

Jim Heyer, PE
Dave Bruns, PE

Heyer Engineering offers full-service structural engineering with offices in Minneapolis and Fargo. Jim Heyer, PE is licensed and has designed structures in 38 states. Over a 24-year period, more than 7,000 projects have been accomplished, including all types of occupancies and construction materials. Over the years, we have formed excellent relationships with our clients, who frequently use our services for the majority of their projects. This is the result of our dependability, quality designs, creativity and wealth of experience.

Chanhassen High School, Chanhassen, MN; Horizon Middle School, Moorhead, MN; Ralph Engelstad Arena, Grand Forks, ND; Northwest Aerospace Training Center, Eagan, MN; Jackson Place/Bluff Block, Elk River, MN; Innovis Health Medical Center, Fargo, ND

I & S GROUP, INC.

1409 North Riverfront Drive
Mankato, MN 56001
Tel: (507) 387-6651
Fax: (507) 387-3583
Email: info@is-grp.com
www.is-grp.com
Established 1973
Other MN Office: Faribault
Total in MN Office: 80
Contact: Chad Surprenant, PE
(507) 387-6651

Firm Principals

Chad Surprenant, PE
Jason Hoehn, PE, SE
Mark Cipos, AIA, CID
Chuck Brandel, PE
Brian Gjerde, PE
Lynn Bruns, PE, LEED AP

Providing complete design services from 'start to finish', I&S Group, Inc. (I&S) has evolved into the most comprehensive professional design firm in southern Minnesota. I&S provides architecture, interior design plus structural, mechanical, electrical, and civil engineering; also land surveying, natural resources management, landscape architecture and community resources planning services. To learn more about I&S, please visit our website at www.is-grp.com.

Heintz Toyota, Mankato, MN; Faribault Soccer Complex, Faribault, MN; Sibley Parkway Redevelopment, Mankato, MN; prior lake Fire Station No. 2, Prior lake, MN; Holiday Inn Express Hotel and Sies, Mankato, MN; Cherry Street Parking Ramp and Transit Station, Mankato, MN

KARGES-FAULCONBRIDGE, INC.

670 West County Road B
 St. Paul, MN 55113
 Tel: (651) 771-0880
 Fax: (651) 771-0878
 Email: kfi@kfiengineers.com
 www.kfiengineers.com
 Established 1996
 Total Staff: 89
 Contact: David Jansa, (651) 771-0880

Firm Principals

William J. Karges, Jr., PE
 James A. Faulconbridge, PE
 Randy P. Christenson, PE

Karges-Faulconbridge, Inc. (KFI) is a unique engineering firm of engineers, designers, professional estimators, and commissioning specialists registered in 50 states, the District of Columbia and Puerto Rico. Located in St. Paul, KFI's office building was the first building in Minnesota to obtain the LEED-EB Gold certification. KFI provides engineering and commissioning services for industrial, institutional, educational, healthcare, and commercial organizations.

Redwood Area Hospital Expansion, Redwood Falls, MN; Forest Elementary, Robbinsdale Schools, Robbinsdale, MN; Best Buy Stores, Nationwide; Commissioning Great River Energy Headquarters; Commissioning TCF Bank Stadium, Minneapolis, MN

KIMLEY-HORN AND ASSOCIATES, INC.

2550 University Avenue West
 Suite 345N
 St. Paul, MN 55114
 Tel: (651)643-0400
 Fax: (651) 645-5116
 Email: jon.horn@kimley-horn.com
 www.kimley-horn.com
 Established 1967
 Total in MN Office: 73
 Other Offices: Raleigh (Corporate, 65 offices nationwide)
 Total in Other Offices: 2300
 Contact: Jon Horn, PE (651) 643-0406

Firm Principals

Gary Ehret, PE
 Jon Horn, PE
 Mike Hermann, PE
 Paul Danielson, PE
 Gary Christensen, PE
 Mark Bishop, PE

continued next column

Kimley-Horn and Associates, Inc. is a national consulting engineering firm with a St. Paul office that has significant local experience serving architects, municipalities, counties, state agencies and private developers. We provide a wide range of services including municipal engineering, transit, traffic engineering, environmental, landscape architecture, urban design, structural engineering and aviation.

Northstar Corridor, Big Lake to Minneapolis, MN; Metropolitan Airports Commission (landslide projects), Minneapolis-St. Paul International Airport, MN; Anoka Municipal Parking Ramp, Anoka, MN; Central Corridor, Minneapolis to St. Paul, MN; Legacy Parkway, Maplewood, MN; Northwest Quadrant, New Brighton, MN

KRECH, O'BRIEN, MUELLER & ASSOCIATES

6115 Cahill Avenue
 Inver Grove Heights, MN 55076
 Tel: (651) 451-4605
 Fax: (651) 451-0917
 Email: jkrech@komainc.com
 www.komainc.com
 Established 1987
 Total MN Office: 17
 Contact: James Krech, (651) 789-4120

Firm Principals

James H. Krech, PE
 Michael J. Lisowski, PE
 Daniel J. O'Brien, AIA
 Brady R. Mueller, AIA
 Cindy Douthelt Nagel, CID

KOMA offers structural engineering, architecture and interior design services. Registered as structural engineers in 24 states, typical projects include industrial, commercial, institutional, ecclesiastical, forensic, agricultural, blast resistance and hazardous waste confinement. Specialties include granular material storage, hazardous liquid containment, corrosive environments, blast resistance and aluminum greenhouse design.

Nickelodeon Universe, Bloomington, MN; American Girl, Bloomington MN; Park High School, Cottage Grove, MN; Allina Cottage Grove, Cottage Grove, MN; Rivertown Animal Hospital, Stillwater, MN; Burgundy Place, Edina, MN

KRECH OJARD & ASSOCIATES, P.A.

227 West First Street, Suite 200
 Duluth, MN 55802
 Tel: (218) 727-3282
 Fax: (218) 727-1216
 Email: mail@krechojard.com
 www.krechojard.com
 Total in MN Office: 60
 Other Offices: Eau Claire and La Crosse, WI; Hermitage, PA
 Total in Other offices: 11
 Contact: Michael J. Metso, PE
 (218) 727-3282

Firm Principals

Richard Ojard, PE
 Jeffery Heller, PE

The firm provides architectural and civil, structural and industrial mechanical engineering services. Specialty areas include bulk material handling, railway and marine design, as well as general engineering and architectural consulting services for commercial and industrial facilities.

East Lake School (addition), East Lake, MN; Vermilion Community Wellness Center, Vermilion, MN; Bena Community Center, Bena, MN; Northstar Aerospace, Duluth, MN; Edgewater Waterpark, Duluth, MN

LANDFORM

800C Butler Square
 100 North 6th Street
 Minneapolis, MN 55403
 Tel: (612) 252-9070
 Fax: (612) 252-9077
 Email: mchapman@landform.net
 www.landform.net
 Established 1994
 Total in MN Office: 29
 Other Office: Phoenix
 Total in Other Office: 10
 Contact: Michelle Chapman, (612) 252-9070

Firm Principals

Darren Lazan, RLA
 Kendra Lindahl, AICP

Landform* is a multi-disciplinary consulting firm that offers a full range of integrated site design services including civil engineering, landscape architecture, planning, urban design and land surveying. We offer you a SensiblyGreen* approach to your site design and development challenges from Site to Finish*. Landform, SensiblyGreen and Site to Finish are service marks of Landform Engineering Company.

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ADC Telecommunications World headquarters, Eden Prairie, MN; Methodist Hospital Heart and Vascular Center, St. Louis Park, MN; The Marquis, Williamsburg, VA Current La Vista, Orlando, FL; Chipotle, Minneapolis, MN; Promenade Shoppes at Lakemoor, Eagle, ID

LARSON ENGINEERING, INC.

3524 Labore Road
 White Bear Lake, MN 55110
 Tel: (651) 481-9120
 Fax: (651) 481-9201
 Email: info@larsonengr.com
 www.larsonengr.com
 Established 1979
 Other Offices: Scottsdale, Atlanta, Macon, Chicago, St. Louis, Omaha, Milwaukee, Appleton
 Contact: Kesh Ramduler, PE (651) 481-9120

Firm Principals

Lee Granquist, PE
 John J. Pastore, PE, AIA
 Kesh Ramduler, PE
 Henry Voth, SE
 Roger Pocta, PE

Founded in 1979, Larson Engineering provides structural, civil, mechanical and process engineering services. We excel in curtain wall design, pavement maintenance programs, athletic surfaces, and commercial/industrial structures. As a member of the U.S. Green Building Council, we are especially proud of our work on biofuels, wind turbines, and LEED-certified structures.

Century College Science Library, White Bear Lake, MN; Lemont High School, Lemont, IL; Kennedy Community School, St. Joseph, MN; Edem Hills Wind Farm, Palm Springs, CA; Toyota Portal Frames, Multiple U.S. Locations; Coburn's Grocery Store, St. Cloud, MN

LHB, INC.

21 West Superior Street, Suite 500
Duluth, MN 55802
Tel: (218) 727-8446
Fax: (218) 727-8456
Email: info@lhbcorp.com
www.lhbcorp.com
Established 1966
Other MN Office: Minneapolis
Total in MN Offices: 180
Contact: Richard A. Carter, AIA, CID, LEED® AP (612) 338-2029

Firm Principals

William D. Bennett, PE
David M. Sheedy, PE, CCS, CCCA
Joseph Litman, PE
Jay B. Bergman, PE
Timothy E. Korry, PE
David T. Williams, PE, FPE, LEED® AP

LHB has civil, electrical, mechanical, and structural engineers, land surveyors, architects, interior designers, and landscape architects. We focus on commercial, education, government, healthcare, housing, industrial, pipeline, and public works markets. LHB provides community planning, and designs systems, performance programs, sites, utilities, and buildings. We create performance-based design - utilizing sustainable guidelines including ENERGYSTAR and LEED, and measuring success with Performance Metrics TM.

White bear Unitarian Universalist Church (WBUUC) (porous parking lot), Mahtomedi, MN; Metropolitan Council (L12 lift station and 90" sanitary sewer pipe), St. Paul, MN; Stone Arch Bridge (reconstruction and rehabilitation), Historic Seven Bridges Road, Duluth, MN; Carleton College (new LEED registered student housing), Northfield, MN; Minnesota Power (Boswell air system critical lift design, Cohasset, MN; Enbridge (southern access southern lights stages I and II), Throughout Midwest.

LKPB ENGINEERS, INC.

1935 West County Road B2, Suite 300
St. Paul, MN 55113
Tel: (651) 633-1223
Fax: (651) 633-1355
Email: karla.sampson@lkpb.com
www.lkpb.com
Established 1969
Total in MN Office: 49
Contact: Karla Sampson (651) 288-6110

Firm Principals

Peter A. Potvin, PE
Gayland J. Bender, PE
John M. Killeen, PE
Michael A. Westemeier, PE

LKPB Engineers, Inc. (LKPB) is a mechanical and electrical consulting engineering firm that was founded in 1969. The firm provides services to clients in the education, healthcare, corporate, commercial, historical, recreational and government environments. Services include design phases, master planning, construction documentation, construction administration and commissioning.

TCF Bank Football Stadium, University of Minnesota, Minneapolis, MN; Tufts University Athletic Addition, Medford, MA; Saint Paul West 7th Fire Station and headquarters, Saint Paul, MN; 225 South Sixth Virchow Krause Infill, Minneapolis, MN; Carleton College Residence Hall, Northfield, MN; Como Zoo Polar Bear Odyssey, Saint Paul, MN

LOUCKS ASSOCIATES

7200 Hemlock Lane, Suite 300
Minneapolis, MN 55369
Tel: (763) 424-5505
Fax: (763) 424-5822
Email: home@loucksassociates.com
www.loucksassociates.com
Established 1976
Contact: Mike O'Brien (763) 424-5505

Firm Principals

Jeffrey A. Shopek, PE
Paul J. McGinley, PLS
Michael J. St. Martin, PE
Paul A. Kangas, ASLA
Thomas G. Loucks

continued next column

Services include site layout, grading, storm water conveyance systems, water quality retention ponds, wetland mitigation, EAW/EIS documents, Phase I and II ESAs, groundwater contamination, ALTA title surveys, site feasibility studies, comprehensive plan amendments, rezoning, permitting and approvals for industrial, commercial, retail, corporate campus, assisted living community, senior co-op, townhome and education facilities.

Maple Grove Hospital, Maple Grove, MN; Allianz Corporate Facility, Golden Valley, MN; Wilder Lafond Campus, St. Paul, MN; Southport Barge Channel Improvement, St. Paul, MN

MATTSON MACDONALD YOUNG, INC.

901 North 3rd Street, Suite 100
Minneapolis, MN 55401
Tel: (612) 827-7825
Fax: (612) 827-0805
www.mattsonmacdonald.com
Established 1983
Total in MN Office: 14
Contact: Stephanie Young, PE

Firm Principals

David H. Macdonald, PE
Stephanie J. Young, PE
Eric Bunkers, PE
Joe Cain, PE

Mattson Macdonald Young, Inc. provides structural engineering services for a wide range of building types and sizes. We provide analysis and design for new construction, adaptive reuse, renovation and expansion. We have provided services for multi-million dollar, high-rise construction and one-room porch additions. We strive to produce good work and make sure our clients enjoy the experience of working with us.

The Chambers Hotel, Minneapolis, MN; The Humboldt Mill + Annex, Minneapolis, MN; St. Croix Lutheran High School Chapel, West Saint Paul, MN; Breck School Commons Addition, Golden Valley, MN; 7 of the 29 Homes by Architects Tour Residences, Various Locations, MN; Swedish Institute Solarium Restoration, Minneapolis, MN

MBJ CONSULTING STRUCTURAL ENGINEERS

12 S. Sixth Street, Suite 810
Minneapolis, MN 55402
Tel: (612) 338-0713
Fax: (612) 337-5325
Email: info@mbjeng.com
www.mbjeng.com
Established 1955
Other MN Office: Duluth
Total in MN Offices: 64
Other Office: Phoenix
Total in Other Office: 11
Contact: Dan Murphy (612) 604-3604

Firm Principals

Daniel E. Murphy, PE
Michael J. Ramerth, PE
Jerod Hoffman, PE
Anthony J. Polusny, PE
Brion Szwed, PE

50 years of thorough, responsive, and creative structural design for all building types. Committed to provide design solutions that fulfill the architectural vision while maintaining constructability and value to the owner. Services include design, analysis, feasibility studies, construction documents, field observation, special inspections, forensics, and ramp condition surveys.

MacPhail Center for Music, Minneapolis, MN; University of Minnesota, Fairview Children's Hospital, Minneapolis, MN; UMD Labovitz School of Business, Duluth, MN; St. Jude Medical Campus Expansion, Little Canada, MN; Reflections Condominiums at Bloomington Central Station, Bloomington, MN; Microsoft Campus Expansion, Fargo, ND

**MCCONKEY JOHNSON
SOLTERMANN, INC.**

241 Cleveland Avenue South, Suite B2
St. Paul, MN 55105
Tel: (651) 698-5626
Fax: (651) 698-5628

Email: rjohnson@mjs-inc.net
www.mconkeyjohnsonsoltermann.com
Established 1978
Total in MN Office: 5

Contact: Richard W. Johnson,
(651) 698-5626 x16

Firm Principals

Richard W. Johnson, PE
Christian Soltermann, PE

Structural engineering consulting services for commercial, industrial, institutional and residential projects. Structural assessments of existing structures. Design office that stresses cooperation, communication and a knowledgeable exchange of ideas. Licensed in 16 states.

Kowalski's Market, Eagan, MN; Chisago City Public Works Facility, Chisago City, MN; Creekside Commons, Minneapolis, MN; Lone Oak Business Center, Eden Prairie, MN; Gander Mountain, Wausau, WI; Glenwood State Bank, Alexandria, MN

MICHAUD COOLEY ERICKSON

333 South Seventh Street, Suite 1200
Minneapolis, MN 55402
Tel: (612) 339-4941
Fax: (612) 339-8354

Email: info@michaudcooley.com
www.michaudcooley.com
Established 1962
Total in MN Office: 125
Contact: Coley Konop (612) 673-6964

Firm Principals

Dean A. Rafferty, PE
Douglas C. Cooley, PE
Joseph A. Tennyson

Michaud Cooley Erickson has provided consulting engineering services for over 60 years. With a team of 125-strong, we are the largest consulting engineering firm in the region. In addition to mechanical and electrical engineering, we have specialists in fire protection, lighting design, low-voltage system design and commissioning. Our primary markets include corporate, health care, mission critical data centers, medical, manufacturing, retail, and aviation.

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Wells Fargo Operations Center, Shoreview, MN; US Bank Operations Center, Olathe, KS; Guthrie Theater, Minneapolis, MN; Hubert H. Humphrey Terminal, Minneapolis, MN; Musical Instrument Museum, Tempe, AZ; Warren E. Burger Federal Building, St. Paul, MN

NORTHERN TECHNOLOGIES, INC.

2942 Fiechtner Drive
Fargo, ND 58103
Tel: (701) 232-1822
Fax: (701) 232-1864

Email: marc@northerntechinc.com
www.northerntechinc.com
Established 1996
Other MN Office: Ramsey
Total in MN Office: 20
Other Offices: Grand Forks
Total in Other Offices: 30
Contact: Marc Shannon (701) 232-1822

Firm Principals

Marc Shannon, PE
Bret Anderson, PE
Dan Gibson, PE
Mike Wasmund, PE

Multi-discipline geotechnical and materials engineering and testing firm, providing service to both public and private sectors. Governmental clients include Federal and state agencies, counties and cities. Private clients include owners, developers, a variety of industry and commercial retailers. NTI also provides team design support to architects, consulting engineers, and contractors to aid in their design and construction quality control.

Microsoft (addition), Fargo, ND; Tharaldson Ethanol Plant, Casselton, ND; Bemidji Airport (phase III), Bemidji, MN; Stadter Center, Grand Forks, ND; Staples Hospital, Staples, MN; Park Rapids Middle School, Park Rapids, MN

OLSSON ASSOCIATES

6600 France Avenue South, Ste. 230
Edina, MN 55435
Tel: (952) 941-0477
Fax: (952) 941-0644

Email: banderson@oaconsulting.com
www.oaconsulting.com
Established 1956
Total in MN Office: 8
Other Offices: Phoenix, Denver, Lincoln, Omaha, Springfield, Des Moines, Kansas City, Tucson
Total in Other Offices: 700
Contact: Brandon Anderson, PE
(952) 927-3805

Firm Principals

Brandon Anderson, PE
Dave Ciaccio, RLA, ASLA
Jack Lynch, RLA, ASLA

Olsson Associates is a successful engineering and design firm that has been creating public and private projects throughout the United States for more than 50 years. We offer comprehensive design and consulting services in water/wastewater, water resources, land development, landscape architecture, urban planning, environmental sciences, transportation, municipal, geotechnical, special inspections, and mechanical and electrical. Olsson Associates is on the web at www.oaconsulting.com

Regions Hospital (expansion), St. Paul, MN; US Army National Guard Readiness Center, Faribault, MN; City of Edina Garden Park, Edina, MN; St. Paul Public Safety Refueling Center, St. Paul, MN; 46th and Hiawatha Transit-oriented Development (TOD) Strategy, Minneapolis, MN; Olmsted County Health and Human Services Building, Rochester, MN

REIGSTAD & ASSOCIATES, INC.

192 West 9th Street
St. Paul, MN 55102
Tel: (651) 292-1123
Fax: (651) 292-8015

Email: greigstad@reigstad.com
www.reigstad.com
Established 1979
Total in MN Office: 35
Other Office: Gulfport, MS
Total in Other Office: 2
Contact: Gordon H. Reigstad (651) 292-1123

continued next column

Firm Principals

Gordon H. Reigstad, PhD, PE, SE
Charles R. Ashton, PE
David A. Senter, PE (CA, CO, ND, SD, WI)

Reigstad & Associates is a full-service engineering firm specializing in structural design of all types of buildings. Our Precast Division can handle a wide spectrum of projects including multi-story garages, stadia/raker systems and complete building systems.

Harrah's Margaritaville Casino and Resort, Biloxi, MS; Island View Resort West Parking Garage, Gulfport, MS (Prime Professional); Epic Systems Corporation, Madison, WI; Delisle Head Start, Pass Christian, MS; Orono Professional Building, Orono, MN; UNC-Wilmington (precast parking deck), Wilmington, NC

SEBESTA BLOMBERG

2381 Rosegate
Roseville, MN 55113
Tel: (651) 634-0775
Fax: (651) 634-7400

Email: jnelson@sebesta.com
www.sebesta.com
Established 1994
Other MN Office: Rochester
Total in MN: 120
Other Offices: Arlington (VA), Boston, Chicago, Cedar Rapids, Dallas, Phoenix, W. Palm Beach
Total in Other Offices: 100

Firm Principals

Tony R. Litton, PE
Dan Tollman
Jay J. Rudberg, PE

Sebesta Blomberg provides engineering, construction support, commissioning, facility support, energy management, environmental, sustainability, central plant and renewable energy services to airport, commercial, industrial, healthcare, higher education, government, renewable fuels and utility markets. Sebesta Blomberg is headquartered in St. Paul, Minnesota with offices located throughout the United States.

Stabile Building, Mayo Foundation, Rochester, MN; 3M Innovation Center, Maplewood, MN; University of Minnesota Chilled Water Project, St. Paul, MN; Indianapolis Airport Midfield Terminal, Indianapolis, IN; Pentagon (renovation), Washington, DC; River Point Tower Development, Chicago, IL

**SHORT ELLIOTT HENDRICKSON
INC. (SEH)**

3535 Vadnais Center Drive
St. Paul, MN 55110
Tel: (651) 490-2000
Fax: (651) 490-2150
www.sehinc.com
Established 1927
Other MN Offices: Brainerd, Duluth,
Gaylord, Glencoe, Grand Rapids,
Minneapolis, Minnetonka, Rochester, St.
Cloud, Virginia, Worthington
Total in MN Offices: 405
Other Offices: Appleton, Ashland, Boulder,
Denver, Fort Collins, Lakewood, Pueblo,
Cheyenne, Chippewa Falls, Madison,
Milwaukee, New Richmond, Rice Lake,
Shebotgan, Superior, Wausau, Lake County
(IN), Omaha, Sioux Falls
Total in Other Offices: 296
Contact: Michael Kraemer, CEO/Pres.
(651) 490-2000

Firm Principals

Michael Kraemer, PE
Nancy Schultz, AIA
Dan Boxrud, PE
Glenn Schreiner, PE
Steve Gausman, AIA
Jim Newman, PE

Full-service professional consulting firm specializing in civil, structural, electrical, mechanical, traffic, transportation, environmental and waste resources engineering, architecture and landscape architecture; GIS; community planning and construction administration. Projects include municipal building, water, wastewater, highway, airport, flood control and industrial/educational/institutional sector projects.

UMORE Park Development, Rosemount, MN; MCES Meter Stations Improvement Project; I-35W Access Project, MN; Central and Zachary Water Treatment Plant Expansions; Metropolitan Airport Commission's East Reliever Airports, MN

STEEN ENGINEERING, INC.

5430 Douglas Drive North
Crystal, MN 55427
Tel: (763) 585-6742
Fax: (763) 585-6757
Email: steen@steeneng.com
www.steeneng.com
Established 1993
Total in MN: 31
Contact: Eugene A. Striefel, (763) 235-4781

Firm Principals

Mark R. Brengman, PE
Steven M. Youngs, PE
Eugene A. Striefel

Steen Engineering provides mechanical and electrical engineering design from feasibility studies to preparing construction documents. Design experience includes corporate, municipal, medical, hospitality, institutional and retail. Providing HVAC, plumbing, fire protection, lighting, power distribution, life safety, automatic temperature control, energy and analysis and deficiency studies.

Benfield Normandale, Bloomington, MN; Cloverfield Market Place, Chaska, MN; McDonalds/Old Country Buffets, Nationwide; Hospitality, Nationwide; Skilled Nursing/Assisted Living Facilities, Nationwide; National Guard Armories Northfield/Olivia/Sauk Centre, MN

STORK TWIN CITY TESTING

662 Cromwell Avenue
St. Paul, MN 55114
Tel: (651) 645-3601
Fax: (651) 659-7248
Email: info.tct@stork.com
www.storksmt.com
Established 1938
Other MN Office: Maplewood
Other Offices: Wausau, Des Moines

Firm Principals

Michiel Graswinckel
Steven Ruesink, PE
Mark Straight, PE
Thad Harnois, PE
Jay Hanson, PE
Melanie Fiegen, PE

continued next column

Stork Twin City Testing is a member of the Stork Materials Technology network of independent laboratories, providing materials testing, product testing, failure analysis and consulting worldwide. Stork TCT specializes in construction materials and geotechnical engineering, concrete, asphalt, and masonry testing, building product testing, fastener and anchor testing, acoustic evaluation, chemical analysis, nondestructive testing, windows and doors testing, and more.

Minneapolis-St. Paul International Airport (Runway 17-35, Taxiway C-D, and 2008 Taxiway P reconstruction projects), MN; Target Technology Center II, Elk River, MN; Smith Avenue Transit Center, St. Paul, MN; Bottineau Blvd and 63rd Avenue Park and Ride, Brooklyn Park, MN; I-494 Design-build Reconstruction Phase II (TH 5 to I-394), MN; Children's Tower and Parking Garage, University of Minnesota Children's Hospital-Fairview, Minneapolis, MN

**STRUCTURAL DESIGN
ASSOCIATES, INC.**

10900 Noble Avenue North
Champlin, MN 55316
Tel: (763) 560-5300
Fax: (763) 560-5400
Email: sda@sdaeng.com
www.sdaeng.com
Established 1989
Other MN Office: Brainerd
Total in MN Offices: 8
Contact: Gregory J. Duerr, PE,
(763) 560-5300

Firm Principal

Gregory J. Duerr, PE

Structural Engineers providing design, construction documents, reports, and construction administration services for projects in the educational, industrial (manufacturing, warehousing, equipment supports, and repairs), commercial, municipal, medical, and renovation fields. Services provided to Architects, Owners, Contractors, Developers and others.

Rosedale Center (additions and renovations), Roseville, MN; Phalen Village Condominiums, St. Paul, MN; Woodbury-Eastridge High School, Woodbury, MN; Andersen Window Corporate Building #1, Bayport, MN; South Lake Minnetonka Public Safety Facilities, Shorewood, MN; CineMagic Atlantis Theatre, Burnsville, MN

TKDA

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St. Paul, MN 55101-2140
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Fax: (651) 292-0083
Email: facilities@tkda.com
www.tkda.com
Established 1910
Other MN Office: Grand Rapids
Total in MN Offices: 210
Other Offices: Chicago, Kansas City, Irvine, Tampa
Total in Other Offices: 18
Contact: Thomas S. Stoneburner, PE
(651) 292-4485

Firm Principals

William E. Deltner, PE
Thomas S. Stoneburner, PE
Jack W. Griffin, PE
Kevin R. Cullen, PE
Christopher E. Rand, PE
John W. Ahern, PE

Full-service Facilities Division specializing in: industrial, education, renewable energy, government, heating, power and cooling, sports and recreation. Services: mechanical, electrical, structural, civil/site, architecture, interiors, landscape architecture. Systems: structural and architectural building systems, boiler and chiller, process piping, HVAC, plumbing, utilities, fire protection, power distribution, lighting, fire alarm, security, instrumentation and controls. Site: access roads, rail, parking lots, utilities, water supply, water and wastewater treatment.

Flint Hills Resources (Administration - Inver Grove Heights, MN and Shops Buildings - Rosemount, MN); Saint Paul College Trades Area (remodeling and additions Phase 1 and 2), Saint Paul, MN; Minnesota State Fair International Bazaar, Saint Paul, MN; College of St. Scholastica Wellness Center (addition), Duluth, MN; MVTA Cedar Grove Park and Ride, Eagan, MN; City of Red Wing Material Recovery Facility, Red Wing, MN

ULTEIG ENGINEERS

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 Minneapolis, MN 55421-1027
 Tel: (763) 571-2500
 Fax: (763) 571-1168
 Email: info@ulteig.com
 www.ulteig.com
 Established 1944
 Other MN Office: Detroit Lakes
 Total in MN Offices: 147
 Other Offices: Fargo, Bismarck, Sioux Falls,
 Denver
 Total in Other Offices: 239
 Contact: Dan Sargeant (763) 277-6212

Firm Principals

Gerry Floden, PE, PLS
 Brian Long, PE
 Craig Anderson
 Dan Sargeant, PE
 Mike Fisher, PE
 Carson Longtine

Ulteig Engineers is an employee-owned company delivering comprehensive engineering, planning and surveying services to a wide range of public and private clients. Our Building Services practice is comprised of professionals representing multiple disciplines, working together to serve our clients with integrated building and site design solutions. We provide civil, electrical, mechanical, structural, and fire protection engineering and lighting design services.

Douglas County Hospital Surgery Center, Alexandria, MN; Ottertail County Operations Center, Ottertail, MN; Central Bank, St. Michael, MN; French River Hatchery, Duluth, MN; Concordia College Campus Center, Moorhead, MN; Brownstones on France, Edina, MN

VAN SICKLE, ALLEN & ASSOCIATES

2955 Xenium Lane North, Suite 10
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 Fax: (763) 559-6023
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 www.vaaeng.com
 Established 1978
 Other MN Office: Roseville
 Total in MN Offices: 83
 Other Office: Hutchinson, KS
 Total in Other Office: 3

Firm Principals

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 Scott A. Stangeland, PE
 Kelsey F. Brown, PE
 Mark D. Mielke, PE, LEED AP
 Jeff J. Schrock, PE, LEED AP
 Dave J. Galey, PE

continued next column

We are committed to exceeding the expectations of our clients, providing collaborative thinking, proactive communication, innovative solutions, and unparalleled service and support. Engineering consultants providing structural and civil engineering services for commercial, corporate, retail, hospitality, educational, government, healthcare, industrial, senior housing and parking facilities. Designing A Bright Future Together.

American Medical Systems, Minnetonka, MN; Target Corporation, Nationwide; Minnesota Dental, Minneapolis, MN; American Hospital, Dubai, UAE; Shaller Family Shalom East Campus, St. Paul, MN; Lincoln County Courthouse, Canton, SD

WENZEL ENGINEERING INC.

10100 Morgan Avenue South
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 Contact: Tracy Clark, (952) 888-6516

Firm Principals

Lowell E. Wenzel, PE
 Patricia A. Cole, PE
 Jeff A. Segar, PE

Wenzel Engineering, Inc. is a structural engineering firm dedicated to understanding and meeting our clients' goals. Our experience includes new facilities, renovations, additions, and investigations for commercial, industrial, public, retail, educational, religious and healthcare clients.

Fond du Lac Tribal College, Cloquet, MN; Target Field/Twins Stadium, Minneapolis, MN; TCF Bank Stadium, Minneapolis, MN; Potawatomi Travel Plaza, Mayetta, KS; Cemstone Maintenance Building, Dayton, MN; Crosstown Commons, Minneapolis, MN

WESTWOOD PROFESSIONAL SERVICES, INC.

7699 Anagram Drive
 Eden Prairie, MN 55344
 Tel: (952) 937-5150
 Fax: (952) 937-5822
 Email: wps@westwoodps.com
 Established 1972
 Other MN Offices: St. Cloud, Brainerd
 Total in MN Offices: 175
 Other Offices: Rapid City, Overland Park
 Total in Other Offices: 18
 Contact: Daniel Parks, PE, (952) 906-7435

Firm Principals

Dwight Jelle, PE
 Dale Beckmann
 Michele Caron, PE
 Ryan Gideon, PE
 Miles Lindberg, RLA
 Allan Klugman, PE, PTOE

Westwood provides comprehensive sustainable solutions to Land and Energy development projects nationwide. Westwood's services include site/master planning, civil engineering, surveying, aerial mapping, GIS, environmental permitting, cultural resource management, traffic, parking and transportation, landscape architecture, 3D laser scanning, visualization, construction services, erosion control services, and energy real estate services.

Mal of America (shared parking expansion), Bloomington, MN; Target Midway (redevelopment), St. Paul, MN; SuperValu Conference Center, Eden Prairie, MN; Windsor Plaza Mixed-use, Eden Prairie, MN; Shoppes at Dawley Farm, Sioux Falls, SD; CH Robinson Office Campus, Eden Prairie, MN

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7804 Industrial Park Road, PO Box 2720
 Baxter, MN 56425-2700
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 www.wsn.us.com
 Established 1975
 Other MN Offices: Alexandria, Bemidji,
 Crookston
 Total in MN Offices: 142
 Other Offices: Grand Forks, Sioux Falls
 Total in Other Offices: 11
 Contact: Timothy Moe, PE, (320) 762-8149

Firm Principals

Timothy Moe, PE
 Don Anderson, PE
 Tim Bayerl, PE
 Dave Kildahl, PE
 Paul Richards, AIA
 Roger Helland, AIA

continued next column

WSN is a fully-integrated engineering, architecture, land surveying and environmental services firm. Our engineering group includes: Civil - primarily municipal and water resources. Structural - project specific, industrial and bridges. Mechanical/Electrical - HVAC, plumbing and lighting. Our complete team of over 150 employees solves a variety of design and construction issues from planning to completion.

Red Lake River (restoration and habitat improvement project), Crookston, MN; 3rd Avenue (reconstruction), Alexandria, MN; Cass Lake (streetscape), Cass Lake, MN; TH 27, Little Falls, MN; Paul Bunyan Trail Bridge, Baxter, MN; ISD 181 Forestview Middle School, Baxter, MN

WOLD ARCHITECTS AND ENGINEERS

305 St. Peter Street
 St. Paul, MN 55102
 Tel: (651) 227-7773
 Fax: (651) 223-5646
 Email: mail@woldae.com
 www.woldae.com
 Established 1968
 Total in MN Office: 86
 Other Offices: Palatine, IL; Royal Oak, MI
 Total in Other Offices: 22
 Contact: Kevin Marshall, PE, LEED AP
 (651) 227-7773

Firm Principals

Michael S. Cox, AIA
 R. Scott McQueen, AIA, LEED AP
 Vaughn Dierks, AIA, LEED AP
 Kevin Marshall, PE, LEED AP
 Matt Mooney, PE, LEED AP
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Dakota Communications Center, Empire, MN; Cedar School Renovation, Eagan, MN; Rochester Elementary, Rochester, MN; Washington County Campus 2025 Improvements, Stillwater, MN; Farmington City Hall, Farmington, MN; Carver County Government Center Remodel, Chaska, MN

It takes a village to design, engineer, and construct a great building. So let's give credit where credit is due.

W Minneapolis, The Foshay

page 28

Location: Minneapolis, Minnesota

Clients: Ralph Burnet (RWB Holdings) and Ryan Companies

Architect: Elness Swenson Graham Architects, Inc.

Principal-in-charge:
Mark Swenson, FAIA

Project manager: Aaron Roseth, AIA

Project lead designer:
Alessandro Munge, Munge Leung Design Associates

Project architects: Bill Barron;
Steve Oakley

Project team: Heather Whalen, AIA;
Wes Beehler, AIA; Vicky Boddie, AIA;
Craig Hess; Ken Hueser; Lisa Laughlin;
Jennifer Kaiser; Aaron Taylor;
Janine Larson; Kate Dunwell;
Brian Ivers, AIA; Lynn Beise;
John Tadewald, AIA; Steve Larson

Energy modeling: The Weidt Group

Structural engineer:
MBJ Structural Engineers

Mechanical engineer:
Master Mechanical

Electrical engineer: Egan Electric

Civil engineer: Ryan Companies

Lighting designer: Schuler and Shook

Interior design:
Munge Leung Design Associates

Construction manager:
Ryan Companies

Cabinetwork: JR Jones

Window systems: St. Cloud Windows

Concrete work: Ryan Companies

Millwork: JR Jones

Photographer: George Heinrich

Ivy Hotel + Residence

page 34

Location: Minneapolis, Minnesota

Client: Ivy Tower Development, LLC
(Jeffrey Laux)

Owner's representative:
Bossardt Corporation (Steve Kilmer)

Architect: Walsh Bishop Associates, Inc.

Principal-in-charge: Dean Olsen, AIA

Project lead designers: Stephen Knowles, AIA; Brian Lubben, AIA

Project manager: Troy Goetz

Project architect: Pat Pitcher

Project team: Charlie Charlton;
Joel Otto; Kyle Meloni; Meghan Thorp;
Suzanne Ilten; Paul Hand; Ed Wilms

Structural engineer: BKBM Engineers

Mechanical engineer: Metropolitan Mechanical Contractors (design/build)

Electrical engineer: Egan Electric (design/build)

Civil engineer:
Westwood Professional Services

Interior design: Nelson Design Group, Inc. (Elm Nelson)

Stone: Vetter Stone

Cabinetwork: Bayer Interior Woodwork

Flooring systems/materials:
Multiple Concept Interiors (MCI)

Window systems: Interclad

Concrete work:
Northland Concrete & Masonry

Millwork: Bayer Interior Woodwork

Photographer:
Farshid Assassi, Assassi Productions

Sheraton Duluth/ 311 Superior Condos

page 38

Location: Duluth, Minnesota

Client: Sherman Associates

Architect: Elness Swenson Graham Architects, Inc.

Principal-in-charge:
Paul Mittendorff, AIA

Project lead designer:
Loni Strassman, AIA

Project manager: Brian Ivers, AIA;
Michael Ryan, AIA

Project architects: Brian Ivers, AIA;
Christina Kovacs, Assoc. AIA

Project team: Paul Mittendorff, AIA;
Brian Ivers, AIA; Michael Ryan, AIA;
Tom Lehmann, AIA; Burt Coffin, AIA;
Manda Morales; Matt Krueger;
Allison Lambert; Karen Bennett

Structural engineer:
MBJ Structural Engineers

MBJ project team: Dan Murphy;
Tom Petron; Paul Johnson; Craig Bursch

Mechanical engineer:
Foster, Jacobs & Johnson, Inc.

Electrical engineer:
Foster, Jacobs & Johnson, Inc.

Civil engineer: LHB Inc.

Energy modeling:
Foster, Jacobs & Johnson, Inc.

Hotel operator: Wischermann Partners

Lighting designer:
Mesaba Electrical Group

Acoustic consultant:
Veneklasen Associates

Hotel interior design: Manda Morales,
Elness Swenson Graham Architects

Condo interior design:
Cheryl Fosdick Design

Furniture, fixtures, and equipment:
Bray Whaler International

Construction manager:
Oscar J. Boldt Construction

Face brick: Harbor City Masonry

Architectural metal panels:
Jamar Company

Concrete work:
Oscar J. Boldt Construction

Millwork:
Commercial Millwork Solutions

Cabinetwork:
Commercial Millwork Solutions

Flooring systems/materials:
Contract Tile & Carpet, LLC

Windows/storefront:
St. Germain's Glass

Painting and wall coverings:
Steinbrecher Painting

Subcontractors: Mesaba Electrical Group; Strategic Equipment (kitchen equipment); Kremer & Davis (waterproofing); Minuti-Ogle (wall systems); Olympic Pool; Northern Door; Granite Works (marble tops); Schindler (elevator); Commercial Roofing

Photographer:
Landmark Photography & Design LLP

CORRECTION

The photograph on page 29 of our November/December issue was not credited. Our apologies to the photographer, Jesse Mitchell.

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—Photographer Don F. Wong





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